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Third Quarter 2013 Groundwater Monitoring Report

**Former Powerine Refinery
12345 Lakeland Road, Santa Fe Springs, CA**

**SLIC No. 0318, ID No. 2040071
CAO 97-118**

Prepared on Behalf of

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Prepared for

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1.0 INTRODUCTION

On behalf of Isola Law Group, LLP, Murex Environmental (Murex) has prepared this *Third Quarter 2013 Groundwater Monitoring Report* for the former Powerine Refinery property located at 12345 Lakeland Road in Santa Fe Springs, California (Site; **Figure 1**).

1.1 Purpose

The objective of the quarterly groundwater monitoring is to evaluate groundwater quality beneath the site and adjacent properties (**Figure 2**) and to provide regular updates to the Regional Water Quality Control Board, Los Angeles Region (RWQCB). This report presents the groundwater monitoring activities performed between August 20, 2013 and September 9, 2013, in accordance with the RWQCB Cleanup and Abatement Order (CAO) No. 97-118.

1.2 Site Description and History

The Site is approximately 55 acres in size and is bordered to the north by Florence Avenue, to the south by Lakeland Road, and to the east by Bloomfield Avenue (**Figure 2**). Commercial/light industrial properties border the site to the west. The site was operated as an oil refinery from the 1930s until July 1995. Historical aerial photographs indicate that the western portion of the site may have been used for agricultural purposes from approximately 1928 to 1938. Oil production-related structures such as ponds and aboveground holding tanks may have also been located onsite during this time period (Haley & Aldrich, Inc. [Haley & Aldrich], 2005). The refinery is not currently in operation; however, some of the refinery structures remain onsite. These structures are scheduled to be removed prior to the redevelopment of the property for commercial/light industrial use.

Previous refining operations included processing crude oil into several grades of fuel including kerosene, leaded gasoline and aviation fuel, unleaded gasoline, jet fuel, high and low-sulfur diesel, fuel oil, and petroleum coke. Soil and groundwater quality beneath and in proximity to the site have been impacted by past site operations. Soil and groundwater investigations are being conducted pursuant to a CAOs (No. 97-118) issued by the RWQCB to Powerine Oil Company (CENCO Refining Company) in 1997 (Haley & Aldrich, 2005).

2.0 GROUNDWATER SAMPLING ACTIVITIES

Quarterly groundwater monitoring has been conducted since August 1986. The previous monitoring event was performed by Murex in April 2013. The following subsections summarize work completed during the third quarter 2013 monitoring event.

2.1 Monitoring Network

The quarterly groundwater monitoring program currently includes the existing 59 wells, as listed in **Table I** and shown on **Figure 2**. These wells include:

- Twenty-two on-Site groundwater monitoring wells: MW-101, MW-103, MW-104A, MW-105, MW-201, MW-202, MW-204, MW-205, MW-504, MW-701, MW-702, MW-703, MW-704, MW-705, MW-706, W-9, W-10, W-11, W-12, W-17A, W-17B, and W-17C;
- Twenty-five down-gradient off-Site groundwater monitoring wells of which:
 - Four are located on the former Lakeland (aka "Coaster") property: MW-501A, MW-502, MW-503B, and MW-707; and
 - Twenty-one are located on the Metropolitan State Hospital (MSH) property: MW-600A, MW-601A, MW-603, MW-604, MW-605, MW-606, MW-607, MW-708, MW-709, MW-710, MW-711, MW-712, MW-713, MW-714, MW-715, W-14A, W-14B, W-14C, W-15A, W-15B, and W-15C;
- Seven off-Site groundwater monitoring wells located to the southeast on the Walker property including: EW-1, W-1, W-3A, W-4, W-16A, W-16B, and W-16C;
- Three off-Site groundwater monitoring wells located to the east on the Bloomfield property that include: MW-106A, MW-107A, and MW-203; and
- Two on-Site, deep, former water production wells identified as W-7 and W-8.

2.2 Groundwater Gauging

Murex inspected and measured the depth to groundwater in all 59 of the wells on August 22, 2013. During gauging, wells are also checked for the presence and thickness of free-phase petroleum hydrocarbons (FPPH) product. Of those, 19 wells were dry, and four wells contained free-phase petroleum hydrocarbon (FPPH).

Table II summarizes the groundwater elevation and free product thickness measurements.

2.3 Free-Phase Petroleum Hydrocarbon (FPPH) Measurements

Samples were not collected from wells that exhibited the presence of FPPH. Further discussion of the wells exhibiting free product is presented in **Section 3.2**.

2.4 Groundwater Purging and Sampling

The groundwater monitoring wells that contained groundwater were purged via low-flow methodology using a stainless steel bladder pump, with the exception of wells W-7, W-8, W-11, and MW-107A. W-7 and W-8 are deep production wells and are sampled via disposable bailer without purging water from them first. At well W-11, upon deployment of the pump into the well, a blockage in the well casing was experienced at approximately 10 ft-bgs. As such, well W-11 was not sampled during the current event. Murex plans to have maintenance performed on the well to repair it for future sampling events. Due to low yield with the bladder pump, well MW-107A was bailed, allowed to recharge, and sampled via disposable bailer.

To minimize the potential of cross-contamination from sampling equipment, groundwater monitoring wells were generally purged and sampled in order of lowest TPHg concentrations to highest TPHg concentrations, based on the results of the previous monitoring event. The sampling equipment was cleaned using a three-stage decontamination rinse between each well sampled.

During purging, parameters of extracted groundwater were recorded. The parameters measured during purging were temperature, pH, electrical conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), color, and odor. The results of the field parameter testing are summarized in **Table IV**. Purged groundwater was disposed at the wastewater treatment system in operation at the Site.

Upon stabilization of parameters to within approximately 10%, groundwater samples were collected from the wells, placed in sample containers, stored in pre-cooled ice chests, and transported under proper chain-of-custody procedures to Sunstar Laboratories, Inc. (Sunstar Labs) of Lake Forest, California, California Department of Public Health Environmental Laboratory Accreditation Program (ELAP) #2250.

2.5 Groundwater Analysis

The chemicals of concern (COCs) impacting groundwater in the area of study include total petroleum hydrocarbons as gasoline (TPHg), BTEX compounds (i.e., benzene, toluene,

ethylbenzene, and xylenes), and petroleum product additives (i.e., oxygenates) and breakdown byproducts, such as methyl tert-butyl ether (MTBE) and tert-butyl alcohol (TBA). Therefore, collected groundwater samples were analyzed for the following:

- TPHg by U.S. Environmental Protection Agency (USEPA) Method 8015M, and
- Volatile organic compounds (VOCs) with oxygenates by USEPA Method 8260B.

Results of these analyses are summarized in **Table III**. Results of the field-measured parameters are shown in **Table IV**.

In addition, samples from selected wells were analyzed for several biological attenuation parameters, such as alkalinity, nitrate, ferrous iron, sulfate, and methane. The results of these analyses are summarized in **Table V**.

2.6 Quality Assurance/Quality Control

In accordance with the Quality Assurance/Quality Control (QA/QC) plan, Murex collected and submitted field duplicate samples and trip blanks for laboratory analysis as a quality assurance/quality control measure.

2.6.1 Trip Blanks

Trip blanks (provided by SunStar Lab) accompanied each daily groundwater sample shipment to evaluate the potential contamination of field samples during storage and transport. Trip blanks were analyzed for VOCs only.

2.6.2 Duplicates

Duplicate samples, which assess the precision of the laboratory analyses, were collected from wells W-4, W-12, MW-709, and MW-712. This represents a duplicate frequency equal to approximately 11% relative to the total number of wells sampled. The duplicates followed the same analytical protocols as their respective primary samples. The results of the duplicate analyses are included with the original sample results in **Table III**.

2.6.3 Equipment Blanks

An equipment blank was collected in the field prior to commencing sampling activities to verify that contaminants were not introduced by the sampling equipment. The equipment blank was analyzed for VOCs only.

2.6.4 Laboratory QA/QC Program

Laboratory QA/QC reports were reviewed to confirm proper completion of data validation tests, including batch QC results, method blanks, laboratory control samples, matrix spikes, and duplicates. The results of lab QC tests were within acceptable limits.

3.0 RESULTS & DISCUSSION

This section presents the results of the third quarter 2013 groundwater monitoring event. As mentioned earlier in the report, well completion details are provided in **Table I**. Groundwater level measurements and groundwater elevations are summarized in **Table II**. Comprehensive analytical results, including historical and recent results, are compiled in **Tables III**. **Table IV** contains a summary of bio-attenuation and field-measured parameter readings. Additional biological attenuation parameters are included in **Table V**.

Figure 3 shows the groundwater elevation measured at each monitoring well, as well as the overall gradient and direction of groundwater flow on-Site. **Figure 4** depicts the same information for the entire monitoring well network. **Figure 5** shows the concentrations and estimated contour lines of TPHg measured in each well, and **Figure 7** shows similar concentrations and contour lines for benzene and MTBE.

Well measurement and groundwater sampling forms are attached as **Appendix A**. Laboratory reports and completed chain-of-custody forms are included in **Appendix B**.

The presentation of the chemical testing results in this report does not distinguish between constituents in groundwater that likely originated from the Site and those that are resultant from other sources located off-Site. Chemicals in groundwater related to off-Site sources are further discussed in **Section 4.3**.

3.1 Groundwater Surface Elevations and Gradient

Groundwater surface elevations were calculated for each well by subtracting the water level measurement from the top of casing elevation (**Tables I and II**). Groundwater elevations were adjusted for wells containing FPPH, assumed to have a relative density of 0.80, which is typical for mean density of various petroleum hydrocarbon mixtures. Groundwater elevations, contour lines, flow direction and gradient are shown on **Figure 4**.

Based on groundwater level measurements obtained on August 22, 2013, first-encountered groundwater beneath the site vicinity ranges in elevation from 12.53 to 50.96 feet above mean sea level (ft-amsl). Wells W-7 and W-8 are former production wells, with screens situated deeper than 500 feet below ground surface (ft-bgs). Their elevations were generally higher, between 42.69 and 55.46, respectively.

In general, groundwater elevations were lower to those measured in the second quarter 2013 monitoring event. For the wells that are constructed to a depth of about 125 ft-bgs

or less, groundwater elevations had exhibited steady decreases for several years until the third quarter 2010, when they experienced a significant increase. By the fourth quarter 2012, the groundwater elevations apparently leveled off, and it appears that groundwater elevations in the Site vicinity are now experiencing a decreasing trend. The groundwater elevations in the wells screened deeper (greater than 125 ft-bgs and up to 200 ft-bgs) appear to indicate similar patterns to the shallower screened wells. As a whole, the average change in groundwater elevation over all the wells measured was a decrease of approximately 2.9 feet from the second quarter 2013 sampling event. **Appendix C** includes hydrographs depicting the change in groundwater elevation over time for all the wells.

The average horizontal groundwater gradient is approximately 0.008 foot per foot (ft/ft), as shown in **Figure 4**, which was similar to the previous monitoring period, and represents what is considered a moderately steep gradient. The groundwater flow direction originates from the northeast and turns south across the area of study. This flow direction is relatively consistent with those historically reported in previous investigations.

3.2 Free-Phase Petroleum Hydrocarbons

Measurable FPPH, also known as light non-aqueous-phase liquid (LNAPL), was detected in monitoring wells EW-1, W-15A, MW-708, and MW-711 (**Table II**). FPPH was measured at a thickness of 1.62 feet in EW-1, 1.22 feet in W-15A, 0.36 feet in MW-708, and 1.08 feet in MW-711. During previous monitoring events going back many years, FPPH was also historically detected in wells MW-101, MW-103, MW-104, MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-501, MW-502, MW-503, MW-503B, MW-504, MW-600, MW-600A, MW-601, MW-601A, W-3A. The majority of these wells are now dry.

Over the previous two years, groundwater samples were collected from wells containing FPPH, after the FPPH was removed through vacuum purging. This exercise produced qualitative data for wells that would not have been sampled otherwise. The data resulting from these samples is considered imprecise given the possibility that minute quantities of FPPH were present in the sample collected. Having collected many rounds of sample data from 2011 to 2013, Murex has now returned to the previous operating procedure whereby wells containing FPPH are not sampled.

3.3 Groundwater Analysis

Within the area of study, COCs impacting groundwater include TPHg, BTEX, MTBE, and TBA. The following text presents the sampling results of the current groundwater monitoring event. Laboratory analytical results are summarized in **Table III**; laboratory reports and completed chain-of-custody forms are included in **Appendix B**. Field-measured parameters

are presented in Table IV. A summary of biological attenuation parameters is included in Table V.

3.3.1 Chemicals of Concern (COCs)

Gasoline is the major release product associated with the Site and is present in the Site's groundwater monitoring network as FPPH. Constituents of gasoline include BTEX compounds, in addition to oxygenated additives and breakdown byproducts, such as MTBE and TBA. The analytical result of each COC was compared to the established California Maximum Contaminant Level (MCL) in drinking water, as applicable. The following table presents the MCL for each COC, as well as the minimum and maximum concentrations detected for the current monitoring event.

Constituent	MCL ($\mu\text{g/L}$)	<u>3Q 2013 Monitoring Event</u>	
		Minimum Value ($\mu\text{g/L}$)	Maximum Value ($\mu\text{g/L}$)
TPHg	N/A ¹	52	8,900 (MW-704)
Benzene	1	0.52	3,900 (W-10)
Toluene	150	0.52	46 (MW-503B)
Ethylbenzene	300	0.67	600 (MW-704)
Xylenes (total)	1,750	1.4	829 (MW-704)
MTBE	13	1.7	250 (MW-704)
TBA	12 ²	ND (<10)	ND (<10)

¹ Not applicable – MCL not established for TPHg

² California Notification Level (former Action Level) – MCL not established for TBA

The analytical results for the current monitoring event indicate that concentrations of COCs within the area of study are generally similar to previous monitoring events. Elevated concentrations of TPHg, BTEX, MTBE, naphthalene, and 1,2,4-trimethylbenzene are apparent in the northern-central portion of the Site (near W-10), the southwestern portion of the Site (near MW-704), and in a dissolved-phase plume that extends south to the central portion of the MSH property. In addition to the aforementioned constituents, this plume also generally contains elevated concentrations of TBA and 1,3,5-trimethylbenzene. To the east (cross- to up-gradient) of the Site's monitoring network, elevated concentrations of TPHg, benzene, naphthalene, and TBA are generally present, though the source of these constituents is unknown.

Analytical results and isoconcentration contours are presented in Figure 5 (TPHg), Figure 6 (benzene), and Figure 7 (MTBE).

3.3.2 Other VOCs

In addition to the aforementioned COCs, several additional VOCs were detected in groundwater during this monitoring event. Some of these compounds, such as naphthalene, n-propylbenzene, and trimethylbenzene, for instance, are related to petroleum hydrocarbon releases.

Conversely, also detected were chlorinated solvents, such as tetrachloroethylene (PCE), trichloroethene (TCE), 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), 1,2-dichloroethane (1,2-DCA), and cis-1,2-dichloroethene (cis-1,2-DCE), among others, which we believe are the result of off-Site contamination entering the Powerine well network.

The U.S. EPA and the RWQCB are aware of the chlorinated solvents in groundwater through their oversight of the cleanup of a Superfund site located to the north, and up-gradient of the Site. Murex provides this data to the U.S. EPA on a periodic basis.

3.3.3 Biodegradation Parameters

Biodegradation of TPHg most commonly occurs by aerobic, nitrate-reducing, ferric iron (Fe^{3+})-reducing, sulfate-reducing, or methanogenic respiration. TPHg and BTEX serve as electron donors for microbial metabolism in aerobic biodegradation. Electron acceptors include oxygen, nitrate, Fe^{3+} , sulfate, and carbon dioxide.

In general, if sufficient oxygen is present, aerobic biodegradation will occur first. When DO concentrations fall below approximately 0.5 mg/L (an anoxic environment), denitrification will begin if nitrate is present. After most nitrate has been consumed, Fe^{3+} reduction will begin if Fe^{3+} is present. Fe^{3+} concentrations will decrease, while ferrous iron (Fe^{2+}) concentrations will increase. After most Fe^{3+} is consumed, sulfate reduction will begin if sulfate is available. After most sulfate has been consumed, methanogenesis, which involves carbon dioxide as an electron acceptor, begins. During methanogenesis, methane concentrations increase (Department of the Navy, 1998).

The results discussed below indicate that biodegradation, whether aerobic or anaerobic, may be occurring in the local environment around the wells that were sampled for biodegradation parameters.

3.3.3.1 Field-Measured Parameters

Field pH, DO, and oxidation-reduction potential (ORP) data were collected from 32 monitoring wells using a YSI 556 water quality meter (**Table IV**). The meter was inserted into a flow-through cell during well purging.

- **pH** – This parameter quantifies the acidity or alkalinity of a solution. Results ranged from 6.66 to 7.50, indicating a generally neutral environment that is suitable for the growth of alkalophilic bacteria and microorganisms that thrive at a circumneutral pH.
- **DO** – Oxygen is the preferred electron acceptor in the biodegradation of petroleum hydrocarbons. When aerobic biodegradation occurs, DO concentrations are expected to decline as microorganisms use the electron acceptor during respiration. DO is likely very low in wells exhibiting higher TPH concentrations, since oxygen is the first compound used up in the biological degradation of petroleum. DO values ranged from 0.81 mg/L in well W-9 to 3.75 mg/L in well W-15C.
- **ORP** – This parameter is a measure of electron activity, which reflects the oxidizing or reducing nature of the environment. ORP values are generally negative under reducing conditions (gaining electrons) and positive under oxidizing conditions (losing electrons). Negative ORP values were observed in 31 of the 32 wells measured.

ORP values ranged from -329.7 mV in well W-16C to 60.2 mV in Well MW-710. **Figure 8** presents concentrations for ORP.

Hydrogen sulfide (produced from the reduction of sulfate in groundwater, after oxygen is used up) was detected during purging of wells exhibiting elevated TPH concentrations and low or negative ORP values, which is consistent with our understanding of the conceptual site model, and indicates that aerobic degradation of the hydrocarbons has stalled due to dissolved oxygen limitations. It is likely that the introduction of air (via bioventing for example) will enhance the process of stimulating the aerobic degradation of the constituents of concern at the site.

3.3.3.2 Laboratory-Analyzed Parameters

Samples from selected wells were analyzed for several biological attenuation parameters, such as alkalinity, nitrate, ferrous iron, sulfate, and methane. The analysis of these parameters will provide baseline measurements prior to implementing groundwater remediation and will assist in monitoring naturally-occurring trends. The results of these analyses are summarized in **Table V**.

3.3.4 QA/QC

Duplicate sample results are provided with their primary sample results in **Tables III**. The results show similar concentrations of the analytes of interest as in their respective primary samples, as would be expected for an ELAP-certified laboratory.

The equipment blank sample did not indicate the presence of VOCs, which verifies that contaminants were not introduced by the sampling equipment

Trip blank samples did not indicate the presence of VOCs, which indicates proper sample storage and confirms a lack of cross-contamination during transport.

Laboratory method blanks did not indicate the presence of VOCs, which indicates that laboratory detection equipment did not exhibit cross-contamination.

Laboratory control and laboratory spike samples exhibited results within acceptable limits, indicating no matrix interference and that the detection equipment was working properly.

4.0 SUMMARY & CONCLUSIONS

Groundwater monitoring was performed at and in the vicinity of the former Powerine refinery in August and September 2013 as part of an ongoing groundwater monitoring plan intended to evaluate chemical impacts, contaminant sources, and overall groundwater quality. This groundwater monitoring event included inspecting/gauging water levels in 59 wells and collecting samples from 35 of those wells for analysis of TPHg and VOCs.

4.1 Groundwater Surface Elevations and Gradient

A horizontal groundwater gradient of approximately 0.008 ft/ft was calculated for the third quarter 2013 groundwater monitoring event. This is consistent with historical gradient data for the site vicinity. Averaging all the wells exhibiting measurable groundwater, elevations have decreased by approximately 2.9 feet since the previous quarter. Groundwater flows from the northeast and turns due south across the area of study, which is consistent with historical measurements. Deep-screened production wells W-7 and W-8 exhibited decreases of approximately 6.2 to 8.5 vertical feet in groundwater elevation this quarter. Seasonal fluctuations in the underlying aquifers in which these wells are screened are likely due to municipal water pumping operations in near proximity of the site.

4.2 Free-Phase Petroleum Hydrocarbons

Measureable free product was identified in wells EW-1, W-15A, MW-708, and MW-711. These wells have exhibited FPPH in the past; although it first appeared in W-15A in 2011. The FPPH thickness measured in these wells (1.62, 1.22, 0.36, and 1.08 feet, respectively) does not necessarily reflect FPPH actual thickness in the surrounding aquifer as fluctuations in water levels and permeability factors can influence FPPH accumulation in monitoring wells.

Murex has conducted a study to compare the characteristics (i.e., “fingerprints”) of FPPH samples taken from several of the monitoring wells, including wells that do not currently contain FPPH. Samples of FPPH were collected from wells W-11, MW-503B, MW-708, EW-1, and W-15A. All the samples were then submitted for fingerprinting analysis to Zymax Forensics Laboratory in Escondido, California on September 21, 2011. The findings of this study were submitted to the RWQCB on January 25, 2012 as an addendum to the June 30, 2011 FPPH Investigation Report and indicate the presence of multiple possible sources of petroleum releases that have impacted groundwater within the Powerine study area. For instance, FPPH is present in well EW-1, but TPHg and benzene concentrations are comparatively low, indicating a non-gasoline release, such as fuel oil or other petroleum product.

4.3 Groundwater Quality

The highest concentrations of TPHg detected during this sampling event were beneath the southwestern and northern-central portions of the Site (**Figure 5**). The maximum verifiable detected concentrations of TPHg were 8.9 mg/L in well MW-704 and 8.5 mg/L in well W-10, although it is also likely high in the FPPH wells MW-708, MW-711, W-15A, where samples were not collected.

Benzene, toluene, ethylbenzene, xylene, and other compounds associated with petroleum hydrocarbons largely mimic TPHg in their presence and relative concentrations in the areas associated with the plume. The maximum concentration of benzene was detected in well W-10 at 3,900 µg/L, located in the northern-central portion of the Site (**Figure 6**). Again, the wells containing FPPH also likely exhibit elevated BTEX concentrations. The maximum concentration of MTBE was detected in well MW-704 at 250 µg/L, located in the southwestern portion of the Site (**Figure 7**).

Changes in the petroleum hydrocarbon plume may be reflective of fluctuations in groundwater elevation. Free-phase hydrocarbons, less dense than water, often remain above the water table in a "smear zone" as groundwater elevations fall. Residual impacts in the smear zone are expected to continue to cause variation in dissolved-phase concentrations and effect when and where FPPH are measured. Murex will continue to monitor the hydrocarbon plume within the well network and provided regular updates to the RWQCB through the monitoring and reporting program. Having performed an extended study of FPPH in 2011 and 2012, Murex plans to discontinue the sampling of wells that contain FPPH in future events, which is consistent with historical practice.

4.3.1 Off-Site Sources of Petroleum Hydrocarbons

In addition to historic releases from the Site, data collected from the monitoring well network (**Figures 4, 5, and 6**) exhibits evidence of other sources. Some observations that would support the presence of alternative sources are: (1) the comparatively clean appearance of FPPH in well W-15A versus the weathered or cloudy appearance of FPPH in wells EW-1, MW-503B, and MW-708; (2) the historical presence of FPPH in wells EW-1 and W-3A, which are located east and cross-gradient of the former refinery.

In order to complete characterization of the plume, Murex will be recommending the installation of additional groundwater monitoring wells in the Site's area of study, as further discussed in **Section 4.5**.

4.3.2 Discussion of Solvent Detections

Data collected from the monitoring well network (**Table III**) exhibits the presence of substances not linked to historic releases at the Site, including chlorinated solvents. The following observations were made regarding the additional detected chemicals in groundwater within the former Powerine refinery monitoring well network.

During this sampling event, elevated PCE and TCE concentrations (i.e., between 41 and 67 µg/L) were measured in well MW-710. This is consistent with previously-measured values from MW-710. Historically, these compounds were also detected in wells MW-107A, MW-701, W-14B, and W-14C.

Cis-1,2-DCE was detected in 23 of the wells sampled at concentrations generally consistent with historical levels; it was detected at an elevated concentration of 86 µg/L in the sample collected from well W-14B (compared to an historical high of 14 µg/L). 1,1-DCE was detected at elevated concentrations of 41 and 34 µg/L in wells MW-710 and W-14B, respectively. Historically, wells W-14A and W-14C also exhibited elevated concentrations of these constituents.

The U.S. EPA and the RWQCB are aware of the chlorinated solvents in groundwater through their oversight of the cleanup of a Superfund site located to the north, and up-gradient of the Site. Murex provides this data to the U.S. EPA on a periodic basis.

4.3.3 Assessment of Vapor Risk from Groundwater Plume

At the direction of the DTSC, Murex has conducted an off-site soil gas sampling study. The results, presented to the RWQCB and DTSC in the November 7, 2011 *Off-Site Soil Gas Survey Report*, indicate that the petroleum hydrocarbon plume does not pose a threat to off-site receptors as a result of volatilization from groundwater.

4.4 Biodegradation

Intrinsic biodegradation continues to be viable, in at least some areas of the site and vicinity, based on nitrate, sulfate, Fe²⁺, methane, alkalinity, and ORP results from previous sampling events conducted at the site. Oxygen has been depleted, as evident by the presence of hydrogen sulfide in the deep subsurface (sulfate reduction reactions result in the formation of hydrogen sulfide). Since the main limiting factor for biodegradation of petroleum hydrocarbons is oxygen, the mechanical introduction of oxygen could stimulate aerobic biodegradation of the VOCs present in groundwater.

Murex conducted pilot testing at the site to determine the appropriate remedial technology which will effectively enhance biodegradation of the constituents of concern and reduce the extent of groundwater contamination. Based on the results and data collected during pilot testing, it appears that a combination of remedial technologies would be suited for the site. The results and conclusions of this study were submitted to the RWQCB in the Pilot Testing Report dated November 21, 2011.

4.5 Additional Characterization

Murex has studied groundwater characteristics in the Site vicinity and recommended the installation of additional groundwater monitoring wells in the area of study to the RWQCB. The RWQCB has approved the proposed installation of monitoring wells in a letter dated September 26, 2013, which will likely occur during the fourth quarter 2013.

The objective of this proposed work is to better define the lateral extent of free product and dissolved-phase petroleum impacts in the vicinity of the Site. In addition, Murex intends to identify where and to what extent petroleum impacts may be resultant from sources other than the Site, and where multiple plumes, if applicable, have become comingled.

5.0 REFERENCES

1. Arcadis. 2009. *Second Quarter Groundwater Monitoring Report, Former CENCO Refinery, 12345 Lakeland Road, Santa Fe Springs, California*. Prepared for Isola Law Group, LLP. June 25.
2. Dan Herlihy Environmental Services. 2006. Letter from Dan Herlihy, Principal, to Mr. David Isola, Esq., Isola & Ruiz, LLC, re: Recommendations to Fill Data Gap and Modify Shallow Well Design & Sampling, Community Development Commission of the City of Santa Fe Springs v. Powerine Oil Company et al., Case No. VC039820. September 8.
3. Department of the Navy. 1998. *Technical Guidelines for Evaluating Monitored Natural Attenuation of Petroleum Hydrocarbons and Chlorinated Solvents in Ground Water at Naval and Marine Corps Facilities*. September.
4. Gustafson, J.B., Tell, J.G., Orem, D. 1996. Total Petroleum Hydrocarbon Criteria Working Group (TPHCWG): Selection of Representative TPH Fractions Based on Fate and Transport Considerations. Volume 3.
5. Haley & Aldrich, Inc. 2004. *Draft 2004 Semi-Annual Groundwater Monitoring Report, CENCO Refinery, Santa Fe Springs, California*. October 18.
6. Haley & Aldrich, Inc. 2005. *Additional Site Investigation Work Plan, CENCO Refining Company*. May 9.

6.0 CLOSING

I certify under penalty of law that this document and all enclosures were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. The information contained herein is, to the best of my knowledge and belief, true, accurate and complete, however, is reliant upon public agency records, which could be incomplete or inaccurate beyond our control.

Should you have any questions or concerns regarding the material herein, please do not hesitate to contact the undersigned at (714) 508-0800.

Sincerely,
MUREX ENVIRONMENTAL, INC.

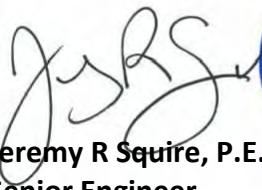

Jeremy R Squire, P.E.
Senior Engineer



Table I
Well Construction Details
Former CENCO Refinery
Santa Fe Springs, CA

Well Installation				Completion Data																Location	Reference(s) ¹	
Well ID	Date	By	Elevation		Hole Diameter (in)	Casing Diameter (in)	Screen		Depth (ft)				Elevation (ft)				Location	Reference(s) ¹				
			Ground Surface (ft)	Top of Casing (ft-amsl)			Slot (in)	Length (ft)	Sand Pack		Slotted		Total Depth		Sand Pack		Slotted					
Groundwater Monitoring Wells																						
EW-1	1989	Emcon	146.85	146.85	-	4	-	-	-	-	-	-	113.5	-	-	-	-	-	-	Walker	Versar (2000)	
MW-101	8/28/1985	IT	145.19	138.00	12	4	-	20	69.5	90	70	90	90	95	66	45	65	45	45	40	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-103	8/30/1985	IT	137.18	139.36	12	4	-	20	-	-	79	99	99	99.5	-	-	58	38	-	37	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-104	8/24/1985	IT	-	-	12	4	-	20	-	-	76.5	96.5	97	99	-	-	66	46	-	43	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-104A	6/1999	Versar	142.38	144.13	-	4	-	-	-	-	65	100	100	-	-	-	-	-	-	-	Refinery	Versar (2000); measured well depth
MW-105	12/1995	TriHydro	-	141.16	-	4	-	-	-	-	68	98	98	100	-	-	-	-	-	39	Refinery	Versar (2000); measured well depth
MW-106	12/1995	TriHydro	-	-	-	4	-	-	-	-	74	104	106.45	106	-	-	-	-	42	42	Bloomfield	Versar (2000)
MW-106A	2/20/2006	N&M	152.92	152.81	8	4	0.02	27	82	110	83	110	110	110	70	42	69	42	42	42	Bloomfield	Well completion report
MW-107	12/1995	TriHydro	-	-	-	4	-	-	-	-	75	105	107.55	108	-	-	-	-	41	41	Bloomfield	Versar (2000)
MW-107A	2/20/2006	N&M	147.37	147.02	8	4	0.02	27	82	110	83	110	110	110	64	36	63	36	36	36	Bloomfield	Well completion report
MW-201	9/10/1985	IT	134.86	135.65	12	4	-	30	66	103	72	102	102	103	67	30	61	31	31	30	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-202	9/23/1985	IT	139.00*	140.62	16	4	-	30	58	105	63	93	93	105	70	23	65	35	35	23	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-203	9/13/1985	IT	144.08	143.71	12	4	-	30	64.7	107	77	107	107	119	78	36	66	36	36	24	Bloomfield	IT (1986); Versar (2000); ARCADIS (2003)
MW-204	9/19/1985	IT	141.15	142.90	12	4	-	30	67.5	105	73.3	103.3	103.3	105	73	35	67	37	37	35	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-205	9/14/1985	IT	140.00*	140.09	12	4	-	30	65.5	103	69.5	99.5	99.5	104.5	73	35	69	39	39	34	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-206 ²	9/18/1985	IT	-	-	-	4	-	30	62.5	104	71	101	101	104	67	26	59	29	29	26	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-501	6/9/1986	IT	-	-	-	4	-	30	-	-	71	101	101	107	-	-	58	28	-	22	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-501A	3/1999	ATC	131.26	130.89	-	4	-	-	-	-	75	95	95	95	-	-	-	-	-	35	Lakeland	Versar (2000); measured well depth
MW-502	6/11/1986	IT	131.88	131.00	-	4	-	30	-	-	74	104	104	104	-	-	54	24	-	24	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-503	6/13/1986	IT	-	-	-	4	-	30	-	-	80.5	110.5	110.5	111	-	-	51	21	-	20	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-503B	1/1999	Versar	133.03	132.66	-	4	-	-	-	-	69	109	109	109	-	-	-	-	-	21	Lakeland	Versar (2000); measured well depth
MW-504	6/18/1986	IT	-	137.18	-	4	-	50	-	-	58	118	95.76	118	-	-	77	17	-	17	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-600	8/15/1990	ENSR	-	-	-	4	-	30	-	-	78	108	108	110	-	-	42	12	-	10	MSH	IT (1986); Versar (2000); ARCADIS (2003)
MW-600A	6/1999	Versar	123.28	124.26	-	4	-	-	-	-	80.5	110.5	110.5	111	-	-	51	21	-	20	MSH	Versar (2000); measured well depth
MW-601	8/17/1990	ENSR	-	-	-	4	-	30	-	-	85	115	115	117	-	-	40	10	-	8	MSH	IT (1986); Versar (2000); ARCADIS (2003)
MW-601A	6/1999	Versar	-	-	-	4	-	-	-	-	65	100	100	100	-	-	-	-	-	27	MSH	Versar (2000); measured well depth
MW-603	12/1995	TriHydro	121.40	120.95	-	4	-	-	-	-	70	100	100	100	-	-	-	-	-	19	MSH	Versar (2000); measured well depth
MW-604	12/1995	TriHydro	140.52	140.07	-	4	-	-	-	-	73	103	103	103	-	-	-	-	-	35	MSH	Versar (2000); measured well depth
MW-605	12/1995	TriHydro	117.40	116.82	-	4	-	-	-	-	65	95	95	95	-	-	-	-	-	20	MSH	Versar (2000); measured well depth
MW-606	12/1995	TriHydro	116.90	116.06	-	4	-	-	-	-	70	100	100	100	-	-	-	-	-	14	MSH	Versar (2000); measured well depth
MW-607	12/1995	TriHydro	128.92	128.28	-	4	-	-	-	-	77	107	107	107	-	-	-	-	-	19	MSH	Versar (2000); measured well depth
W-1	12/1995	TRC	145.19	144.81	-	4	-	-	-	-	70	129	129	130	-	-	-	-	-	13	Walker	IT (1986); Versar (2000)
W-2 ²	12/1995	TRC	-	-	-	4	-	-	-	-	84	129	129	129	-	-	-	-	-	-	Walker	IT (1986); Versar (2000)
W-3 ²	12/1995	TRC	-	-	-	4	-	-	-	-	82	122	122	124	-	-	-	-	-	-	Walker	IT (1986); Versar (2000)
W-3A	-	-	137.18	136.79	-	4	-	-	-	-	-	111.52	115	-	-	-	-	-	-	21	Walker	Versar (2000)

Table I
Well Construction Details
Former CENCO Refinery
Santa Fe Springs, CA

Well Installation				Completion Data																Location	Reference(s) ¹	
Well ID	Date	By	Elevation		Hole Diameter (in)	Casing Diameter (in)	Screen		Depth (ft)				Elevation (ft)				Location	Reference(s) ¹				
			Ground Surface (ft)	Top of Casing (ft-amsl)			Slot (in)	Length (ft)	Sand Pack		Slotted		Total Depth		Sand Pack		Slotted					
									Top	Bottom	Top	Bottom	Casing	Hole	Top	Bottom	Top	Bottom	Casing	Hole		
W-15A	11/27/2007- 12/10/2007	Arcadis	127.91	127.59	10	2	0.02	45	78	126	80	125	125	200	50	2	48	3	3	-72	MSH	ARCADIS (2008)
W-15B			128.00*	127.61	10	2	0.02	10	143	156	145	155	155	200	-15	-28	-17	-27	-27	-72		
W-15C			128.00*	127.59	10	2	0.02	10	188	200	190	200	200	200	-60	-72	-62	-72	-72	-72		
W-16A	10/24/2007- 10/30/2007	Arcadis	147.89	147.60	10	2	0.02	45	76	125	78	123	123	200	72	23	70	25	25	-52	Walker	ARCADIS (2008)
W-16B			148.00*	147.68	10	2	0.02	10	143	156	152	162	162	200	5	-8	-4	-14	-14	-52		
W-16C			148.00*	147.67	10	2	0.02	10	184	200	186	196	196	200	-36	-52	-38	-48	-48	-52		
W-17A	1/31/2008- 2/8/2008	Arcadis	141.60	141.38	9	2	0.02	45	63	108	63	108	108	200	78	33	78	33	33	-59	Refinery	ARCADIS (2008)
W-17B			142.00*	141.37	9	2	0.02	10	159	169	159	169	169	200	-18	-28	-18	-28	-28	-59		
W-17C			142.00*	141.38	9	2	0.02	10	190	200	190	200	200	200	-49	-59	-49	-59	-59	-59		
MW-701	12/6/2010	Murex	136.87	139.48	12	4	0.02	50	77	130	80	130	130	130	59.87	6.87	56.87	6.87	6.87	6.87	Refinery	Murex (2011)
MW-702	12/15/2010	Murex	140.90	140.12	12	4	0.02	50	77	130	80	130	130	130	63.90	10.90	60.90	10.90	10.90	10.90	Refinery	Murex (2011)
MW-703	12/10/2010	Murex	134.73	137.23	12	4	0.02	50	77	130	80	130	130	130	57.73	4.73	54.73	4.73	4.73	4.73	Refinery	Murex (2011)
MW-704	12/14/2010	Murex	137.93	137.66	12	4	0.02	50	77	130	80	130	130	130	60.93	7.93	57.93	7.93	7.93	7.93	Refinery	Murex (2011)
MW-705	12/13/2010	Murex	139.16	141.94	12	4	0.02	50	77	130	80	130	130	130	62.16	9.16	59.16	9.16	9.16	9.16	Refinery	Murex (2011)
MW-706	12/9/2010	Murex	139.68	139.30	12	4	0.02	50	77	130	80	130	130	130	62.68	9.68	59.68	9.68	9.68	9.68	Refinery	Murex (2011)
MW-707	12/23/2010	Murex	128.86	128.43	12	4	0.02	50	77	130	80	130	130	130	51.86	-1.14	48.86	-1.14	-1.14	-1.14	Getty Drive	Murex (2011)
MW-708	1/12/2011	Murex	126.73	126.26	12	4	0.02	50	77	130	80	130	130	130	49.73	-3.27	46.73	-3.27	-3.27	-3.27	Refinery	Murex (2011)
MW-709	1/26/2011	Murex	140.48	139.78	12	4	0.02	50	77	130	80	130	130	130	63.48	10.48	60.48	10.48	10.48	10.48	Refinery	Murex (2011)
MW-710	1/13/2011	Murex	122.15	121.99	12	4	0.02	50	77	130	80	130	130	130	45.15	-7.85	42.15	-7.85	-7.85	-7.85	Refinery	Murex (2011)
MW-711	1/17/2011	Murex	128.09	127.84	12	4	0.02	50	77	130	80	130	130	130	51.09	-1.91	48.09	-1.91	-1.91	-1.91	Refinery	Murex (2011)
MW-712	1/24/2011	Murex	123.57	123.31	12	4	0.02	50	77	130	80	130	130	130	46.57	-6.43	43.57	-6.43	-6.43	-6.43	Refinery	Murex (2011)
MW-713	1/19/2011	Murex	128.42	128.15	12	4	0.02	50	77	130	80	130	130	130	51.42	-1.58	48.42	-1.58	-1.58	-1.58	Refinery	Murex (2011)
MW-714	1/20/2011	Murex	129.07	128.87	12	4	0.02	50	77	130	80	130	143	130	52.07	-0.93	49.07	-0.93	-13.93	-0.93	Refinery	Murex (2011)
MW-715	1/27/2011	Murex	116.66	116.22	12	4	0.02	50	77	130	80	130	130	130	39.66	-13.34	36.66	-13.34	-13.34	-13.34	Refinery	Murex (2011)
Former Groundwater Production Wells																						
W-7	-	-	-	-	141.97	-	-	-	80	-	-	450	530	690	-	-	-	-	-	Refinery	IT (1986)	
						-	-	-	90	-	-	600	690	-	-	-	-	-	-	-	Refinery	
W-8	-	-	-	-	141.11	-	-	-	-	-	-	-	-	994	-	-	-	-	-	-	Refinery	

NOTES:

¹Sources: IT, 1986; Versar, 2000; Arcadis, 2003, 2006, 2008, and 2009; Dan Herlihy Environmental Services, 2006 (as shown).

²Well abandoned

ft Feet

in Inches

MSH Metropolitan State Hospital Property

amsl Above mean sea level

TOC Top of casing

* Value retrieved from Google Earth

Table II
Summary of Groundwater Level Measurements
Former CENCO Refinery
Santa Fe Springs, CA
3Q2013

Well ID	Date	Total Depth (ft)	Depth to Groundwater (ft)	Depth To FPPH (ft)	FPPH Thickness (ft)	Top of Casing Elevation (ft amsl)	Groundwater Elevation (ft amsl)
EW-1	8/22/2013	113.31	107.55	105.93	1.62	146.85	40.60
W-1	8/22/2013	129.58	110.29			144.81	34.52
W-3A	8/22/2013	111.73	DRY			136.79	NA
W-4	8/22/2013	129.50	111.80			142.56	30.76
W-7	8/22/2013	NM	99.28			141.97	42.69
W-8	8/22/2013	NM	85.65			141.11	55.46
W-9	8/22/2013	110.37	92.31			139.84	47.53
W-10	8/22/2013	110.18	100.18			140.71	40.53
W-11	8/22/2013	110.05	101.31			142.10	40.79
W-12	8/22/2013	116.10	105.71			145.15	39.44
W-14 A	8/22/2013	111.85	97.82			114.71	16.89
W-14 B	8/22/2013	167.00	97.46			114.78	17.32
W-14 C	8/22/2013	195.00	97.70			114.78	17.08
W-15 A	8/22/2013	125.40	115.32	114.10	1.22	127.59	13.25
W-15 B	8/22/2013	155.60	114.32			127.61	13.29
W-15 C	8/22/2013	197.34	115.06			127.59	12.53
W-16 A	8/22/2013	122.86	113.23			147.60	34.37
W-16 B	8/22/2013	160.25	126.24			147.68	21.44
W-16 C	8/22/2013	196.30	126.13			147.67	21.54
W-17 A	8/22/2013	108.07	99.25			141.38	42.13
W-17 B	8/22/2013	169.60	115.46			141.37	25.91
W-17 C	8/22/2013	200.00	115.58			141.38	25.80
MW-101	8/22/2013	90.72	DRY			138.00	NA
MW-103	8/22/2013	94.70	DRY			139.36	NA
MW-104A	8/22/2013	100.14	93.17			144.13	50.96
MW-105	8/22/2013	100.47	DRY			141.16	NA
MW-106A	8/22/2013	110.08	104.95			152.81	47.86
MW-107A	8/22/2013	109.29	104.50			147.02	42.52
MW-201	8/22/2013	101.60	DRY			135.65	NA
MW-202	8/22/2013	92.55	DRY			140.62	NA
MW-203	8/22/2013	102.30	DRY			143.71	NA
MW-204	8/22/2013	103.10	DRY			142.90	NA
MW-205	8/22/2013	98.27	DRY			140.09	NA
MW-501A	8/22/2013	93.27	DRY			130.89	NA
MW-502	8/22/2013	100.59	DRY			131.00	NA
MW-503B	8/22/2013	108.72	104.26			132.66	28.40
MW-504	8/22/2013	95.76	DRY			137.18	NA
MW-600A	8/22/2013	92.70	DRY			124.26	NA
MW-601A	8/22/2013	89.90	DRY			126.53	NA
MW-603	8/22/2013	97.60	DRY			120.95	NA
MW-604	8/22/2013	103.20	DRY			140.07	NA
MW-605	8/22/2013	93.98	DRY			116.82	NA
MW-606	8/22/2013	99.05	DRY			116.06	NA
MW-607	8/22/2013	107.05	DRY			128.28	NA
MW-701	8/22/2013	132.65	102.50			139.48	36.98
MW-702	8/22/2013	130.00	101.91			140.12	38.21
MW-703	8/22/2013	130.00	103.77			137.23	33.46
MW-704	8/22/2013	129.81	105.45			137.66	32.21
MW-705	8/22/2013	133.39	106.24			141.94	35.70
MW-706	8/22/2013	130.13	102.62			139.30	36.68
MW-707	8/22/2013	130.77	101.19			128.43	27.24
MW-708	8/22/2013	130.00	100.90	100.54	0.36	126.26	25.65
MW-709	8/22/2013	130.00	111.48			139.78	28.30

Table II
Summary of Groundwater Level Measurements
Former CENCO Refinery
Santa Fe Springs, CA
3Q2013

Well ID	Date	Total Depth	Depth to Groundwater	Depth To FPPH	FPPH Thickness	Top of Casing Elevation	Groundwater Elevation
MW-710	8/22/2013	130.00	99.33			121.99	22.66
MW-711	8/22/2013	130.00	107.14	106.06	1.08	127.84	21.56
MW-712	8/22/2013	130.00	102.43			123.31	20.88
MW-713	8/22/2013	130.00	107.81			128.15	20.34
MW-714	8/22/2013	132.50	108.94			128.87	19.93
MW-715	8/22/2013	134.00	100.88			116.22	15.34

NOTES:

ft Feet
 FPPH Free-phase petroleum hydrocarbons
 amsl Above mean sea level
 NM Not measured, inaccessible
 NA Not available/applicable

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
EW-1	µg/L	11/1/1989	9800	730	16	1400A								<5		9.8			<5	<5	29
EW-1	µg/L	3/1/1990		1800	300	1800								<25		<50			<25	<25	<100
EW-1	µg/L	4/1/1990		1300	290	1600								<1		20	110		<10	<10	<20
EW-1	µg/L	8/21/1998	5000	230	<50	630			<50		150	<50	<50	<50		<50	<50	<50	<50	<100	
EW-1	µg/L	1/28/1999	7900	110	<50	540			<50		130	<50	<50	<50		<50	<50	<50	<50	<100	
EW-1	µg/L	7/19/1999	8000	110	<25	1000			<25		<250	<25	25	<25		<25	<25	<25	<13	<13	
EW-1	µg/L	1/13/2000	NS	NS	NS	NS				NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	
EW-1	µg/L	7/31/2000	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS	NS	NS	NS	
EW-1	µg/L	2/6/2001	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS	NS	NS	NS	
EW-1	µg/L	7/26/2001	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS	NS	NS	NS	
EW-1	µg/L	5/6/2002	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	
EW-1	µg/L	9/25/2002	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	
EW-1	µg/L	11/10/2006	4800	65	<4	68	16	<4	<10	<100	42	6.9	<4	<4		8.4	6.3	<4	<4	<10	
EW-1	µg/L	2/9/2007	4100	41	<2	39	9.4	<2	<5	<50	26	5.1	2.3	<2		7.8	6.5	<2	<2	<5	
EW-1	µg/L	5/10/2007	3300	19	1.5	15	3.7	<4	<10	17	10	2.6	1.4	<4		6.9	6.9	<4	<4	<10	
EW-1	µg/L	8/10/2007	3200	36	2.3	14	4.7	0.64	<5	15	20	3.2	1.4	<2		9.9	11		0.35	<2	<5
EW-1	µg/L	2/8/2008	4100	73	1.9	4.9	<4	<4	<10	31	5.3	0.48	<4	<4		14	9.8		0.54	<4	2.6
EW-1	µg/L	2/3/2011	4500	20	1.5	27	13	<0.50	<1.0	<10	42	<1.0	<1.0	<1.0	1.3	5.9	4.0	<1.0	<1.0	<0.50	<1.0
EW-1	µg/L	2/3/2011	4200	20	1.4	27	13	<0.50	<1.0	<10	22	<1.0	<1.0	<1.0	1.1	5.1	3.5	<1.0	<1.0	<0.50	<1.0
EW-1	µg/L	4/13/2011	4700	29	3.2	51	28	0.74	<1.0	<10	67	1.9	<1.0	<1.0	3.7	8.9	8.6	<1.0	<1.0	<0.50	<1.0
EW-1	µg/L	11/13/2012	2900	<0.50	<0.50	5.8	1.4	<0.50	<1.0	<10	120	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
EW-1	µg/L	1/29/2013	4500	<0.50	3.0	6.1	18	9.3	<1.0	<10	110	20	4.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
EW-1	µg/L	4/10/2013	1400	<0.50	<0.50	2.1	<1.0	<0.50	<1.0	<10	88	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
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MW-104A	µg/L	7/19/1999	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	5.6		<1	1.2	<0.5
MW-104A	µg/L	1/13/2000	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	6.7		<1	<0.5	5.7
MW-104A	µg/L	8/2/2000	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	5.4		<1	<0.5	<0.5
MW-104A	µg/L	2/7/2001	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	4.2		<1	<0.5	<0.5
MW-104A	µg/L	7/25/2001	<100	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	3.9		<1	<0.5	<0.5
MW-104A	µg/L	5/7/2002	100	<0.5	<1	<1			<1	31000	<10	<1	<1	<1		<1	4.3		<1	<0.5	<0.5
MW-104A	µg/L	9/24/2002	<100	<0.5	<1	<1			<1	20000	<10	<1	<1	<1		<1	5.4		<1	<0.5	<0.5
MW-104A	µg/L	6/30/2004	<200	<5	<5	<5			<5	30J		<5	<5	<5		2J	8.1		<5	<5	<5
MW-104A	µg/L	10/7/2005	<100	<0.5	<1	<1	<1	<1	<1	83	<10	<1	<1	<1		<1	3.4		<1	<0.5	<0.5
MW-104A	µg/L	2/15/2006	<50	<1	<5	<5	<5	<5	<1	30	<5	<5	<5	<5		<5	2		<5	<5	<5
MW-104A	µg/L	2/7/2007	540	<2	<2	<2	<2	<2	<2	120	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-104A	µg/L	5/8/2007	33	<2	0.37	<2	<2	<2	<2	340	<5	<2	<2	<2		<2	1.8		<2	<2	<5
MW-104A	µg/L	8/8/2007	<50	<2	<2	<2	<2	<2	<5	150	<5	<2	<2	<2		0.51	2.9		<2	<2	<5
MW-104A	µg/L	11/5/2007	<30	<0.28	<0.36	<0.25	<0.6	<0.3	<0.32	81	<0.41	<0.23	<0.26	<0.32		0.71	4		<0.27	<0.28	<0.3
MW-104A	µg/L	2/4/2008	<50	<2	<2	<2	<2	<2	<5	71	<5	<2	<2	<2		0.91	5.2		<2	<2	<5
MW-104A	µg/L	1/16/2009	46	<2	<2	<2	1	<2	<5	23	<5	0.55	<2	<2		0.57	4.6		<2	<2	<5
MW-104A	µg/L	4/22/2009	<50	<2	<2	<2	<2	<2	<5												

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC	
MW-104A	µg/L	8/24/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.3	<1.0	<1.0	<0.50	<1.0	
MW-104A	µg/L	11/10/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<0.50	<1.0	
MW-104A	µg/L	11/10/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<0.50	<1.0	
MW-104A	µg/L	2/9/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	<0.50	<1.0	
MW-104A	µg/L	5/9/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	18	<1.0	<1.0	<1.0	<1.0	<1.0	4.3	<1.0	<1.0	<0.50	<1.0	
MW-104A	µg/L	8/27/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	3.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-104A	µg/L	11/6/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	<0.50	<1.0	
MW-104A	µg/L	1/28/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-104A	µg/L	4/5/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.4	<1.0	<1.0	<0.50	<1.0	
MW-104A	µg/L	8/23/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.1	<1.0	<1.0	<0.50	<1.0	
MW-106A	µg/L	8/2/2006	310	2.6	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2	21	13	<2	<2	10			
MW-106A	µg/L	11/9/2006	82	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2	17	14	<2	<2	7			
MW-106A	µg/L	2/8/2007	270	2.6	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2	20	15	<2	<2	13		
MW-106A	µg/L	5/10/2007	210	1.5	<2	0.28	<2	<2	<5	20	<5	<2	<2	<2	12	9.9	0.6	<2	7.9			
MW-106A	µg/L	8/9/2007	270	1.6	<2	0.6	<2	<2	<5	19	0.69	<2	<2	<2	14	12	0.83	<2	12			
MW-106A	µg/L	11/7/2007	240	1.4	<0.36	0.84	<0.6	<0.3	<0.32	20	1.6	<0.23	<0.26	<0.32	9.5	11	0.7	<0.28	9.9			
MW-106A	µg/L	2/5/2008	220	1.6	<2	0.42	<2	<2	<5	16	1.8	<2	<2	<2	7.8	10	0.73	<2	10			
MW-106A	µg/L	1/19/2009	220	0.46	<2	<2	<2	<2	<5	17	<5	<2	<2	<2	11	13	0.99	<2	6.3			
MW-106A	µg/L	4/23/2009	290	1.9	<2	3.7	<2	<2	<5	18	0.93	<2	<2	<2	6.3	5.5	0.82	<2	10			
MW-106A	µg/L	3/5/2010	590	8.4	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	2.0	3.5	<1.0	<0.50	<1.0			
MW-106A	µg/L	5/13/2010	460	8.6	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<0.50	21			
MW-106A	µg/L	8/6/2010	450	12	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	3.5	1.0	1.2	<0.50	25			
MW-106A	µg/L	11/4/2010	630	0.64	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	8.8	
MW-106A	µg/L	2/3/2011	570	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0		
MW-106A	µg/L	4/19/2011	480	0.63	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	<0.50	6.9	
MW-106A	µg/L	8/25/2011	540	0.51	<0.50	<0.50	<1.0	<0.50	<1.0	26	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	4.8	
MW-106A	µg/L	11/14/2011	440	0.87	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-106A	µg/L	2/3/2012	440	2.7	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	11	
MW-106A	µg/L	5/8/2012	630	7.1	<0.50	0.87	1.5	<0.50	<1.0	13	7.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	23	
MW-106A	µg/L	8/24/2012	470	4.8	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	11	
MW-106A	µg/L	11/6/2012	610	6.9	<0.50	0.83	<1.0	<0.50	<1.0	<10	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	78	
MW-106A	µg/L	1/28/2013	250	5.7	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-106A	µg/L	4/4/2013	480	6.9	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	14	
MW-106A	µg/L	9/4/2013	150	1.1	<0.50	<0.50	<1.0	<0.50	<1.0	<10												

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-107A	µg/L	3/5/2010	1100	17	0.68	1.6		<0.50	<1.0	<10	6.0	<1.0	<1.0	<1.0		7.6	6.8		<1.0	<0.50	<1.0
MW-107A	µg/L	3/5/2010	1300	16	0.66	1.7		<0.50	<1.0	<10	5.6	<1.0	<1.0	<1.0		7.4	6.4		<1.0	<0.50	<1.0
MW-107A	µg/L	5/13/2010	1500	7.6	11	4.1		2.0	4.7	<10	3.3	2.0	<1.0	<1.0		4.7	4.8		<1.0	<0.50	<1.0
MW-107A	µg/L	5/13/2010	1100	8.8	11	4.2		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		5.9	5.9		<1.0	<0.50	<1.0
MW-107A	µg/L	8/6/2010	1300	120	150	39		1.3	<1.0	<10	24	1.9	<1.0	<1.0		7.5	10		<1.0	<0.50	<1.0
MW-107A	µg/L	8/6/2010	1300	120	160	39		1.3	<1.0	<10	29	1.9	<1.0	<1.0		7.0	9.5		<1.0	<0.50	<1.0
MW-107A	µg/L	11/4/2010	1400	39	11	16	29	<0.50	<1.0	<10	4.1	<1.0	<1.0	<1.0	7.5	5.8	7.7	<1.0	<1.0	<0.50	<1.0
MW-107A	µg/L	11/4/2010	1600	36	10	14	26	<0.50	<1.0	<10	4.2	<1.0	<1.0	<1.0	7.1	5.1	6.9	<1.0	<1.0	<0.50	<1.0
MW-107A	µg/L	2/3/2011	740	4.1	2.2	3.2	14	<0.50	<1.0	<10	1.2	<1.0	<1.0	<1.0	3.3	2.4	3.2	<1.0	<1.0	<0.50	<1.0
MW-107A	µg/L	4/19/2011	1200	2.4	0.90	1.2	4.7	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	5.4	3.6	5.0	<1.0	<1.0	<0.50	<1.0
MW-107A	µg/L	4/19/2011	1200	2.6	0.99	1.2	5.2	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	5.9	4.2	5.9	<1.0	<1.0	<0.50	<1.0
MW-107A	µg/L	8/25/2011	590	0.95	<0.50	<0.50	1.8	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	2.4	1.7	3.4	<1.0	<1.0	<0.50	<1.0
MW-107A	µg/L	8/25/2011	480	0.84	<0.50	<0.50	1.4	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.9	1.4	3.0	<1.0	<1.0	<0.50	<1.0
MW-107A	µg/L	11/14/2011	550	1.0	<0.50	<0.50	1.6	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	4.8	<1.0	<1.0	<0.50	<1.0
MW-107A	µg/L	1/31/2012	500	0.97	0.54	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	3.6	2.6	7.8	<1.0	<1.0	<0.50	<1.0
MW-107A	µg/L	5/8/2012	710	0.78	<0.50	<0.50	<1.0	<0.50	<1.0	<10	2.1	<1.0	<1.0	<1.0	1.7	1.6	3.4	<1.0	<1.0	<0.50	<1.0
MW-107A	µg/L	8/24/2012	720	1.0	<0.50	<0.50	<1.0	<0.50	<1.0	<10	11	<1.0	<1.0	<1.0	2.5	1.8	3.4	<1.0	<1.0	<0.50	<1.0
MW-107A	µg/L	11/6/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-107A	µg/L	1/28/2013	450	<0.50	<0.50	1.2	8.3	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-107A	µg/L	4/4/2013	180	<0.50	2.1	1.8	9.6	5.3	<1.0	<10	71	15	3.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-107A	µg/L	9/4/2013	1100	3.1	0.77	1.9	20	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.4	1.8	3.5	<1.0	<1.0	<0.50	<1.0
MW-503B	µg/L	2/9/1999	10000	970	<50	420					<50	<50	<50	<50	150	110		<50	<50	<100	
MW-503B	µg/L	7/19/1999	7800	630	<20	540			<20		<200	<20	<20	<20	250	180		<20	<10	<10	
MW-503B	µg/L	1/14/2000	14000	1000	32	870			<20		<200	<20	<20	<20	200	210		<20	<10	<10	
MW-503B	µg/L	8/4/2000	5600	610	19	500			<10		23	<10	<10	<10	160	140		<10	<5	<5	
MW-503B	µg/L	2/6/2001	5800	250	<20	320			<20		<200	<20	<20	<20	150	84		<20	<10	<10	
MW-503B	µg/L	7/25/2001	5700	280	<50	230			<50		<500	<50	<50	<50	57	<50		<50	<25	<25	
MW-503B	µg/L	5/9/2002	4500	81	3.5	77			<2	<20000	26	2.5	2.2	<2	23	23		<2	<1	7.7	
MW-503B	µg/L	9/26/2002	3300	36	9.6	140			<1	<10000	48	2.5	3.7	<1	16	18		<1	<0.5	10	
MW-503B	µg/L	7/1/2004	5900	160	37	89	42	<0.5	<5	<100	42	3J	4J	<5		3J		<5	<5	<5	
MW-503B	µg/L	10/5/2005	5400	1100	<20	73	38	<20	<20	<200	<20	<20	<20	<20	<20	<20	<20	<10	<10	<10	
MW-503B	µg/L	2/14/2006	5450	331	<50	12	<250	<250	<10	<100	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	
MW-503B	µg/L	8/4/2006	4700	31	<2	3.5	2.1	2	7.6	<50	<5	<2	<2	<2	3.1	7.2		<2	<2	5.8	
MW-503B	µg/L	11/10/2006	3500	26	<4	4.7	<4	<4	<10	<100	<10	<4	<4	<4	<4	4.9		<4	<4	<10	
MW-503B	µg/L	2/9/2007	1600	59	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2	2.2	11		<2	<2	5.4	
MW-503B	µg/L	5/11/2007	1800	60	0.58	2.1	1	<2	1.3	<50	1.5	<2	0.61	<2		2.6	17				

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC		
MW-503B	µg/L	2/4/2011	57000	1400	7700	2900	15000	5900	<1.0	<10	5200	15000	4400	<1.0	<1.0	<1.0	2.7	<1.0	<1.0	4.8	<1.0		
MW-503B	µg/L	4/15/2011	41000	3400	3200	1800	7200	2600	9.1	63	370	2100	640	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<0.50	8.0		
MW-503B	µg/L	4/15/2011	39000	2200	2500	1400	5200	2000	9.0	64	260	1800	620	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	6.9		
MW-503B	µg/L	8/29/2011	13000	590	270	440	1300	670	4.4	<10	200	470	150	<1.0	<1.0	<1.0	2.7	<1.0	<1.0	<0.50	1.1		
MW-503B	µg/L	11/16/2011	6700	170	160	220	550	280	<1.0	<10	170	290	96	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0		
MW-503B	µg/L	1/31/2012	5400	250	120	270	580	290	<1.0	<10	150	300	57	<1.0	<1.0	<1.0	3.3	<1.0	<1.0	2.0	<1.0		
MW-503B	µg/L	1/31/2012	5200	280	120	300	650	330	<1.0	<10	170	340	55	<1.0	<1.0	<1.0	3.5	<1.0	<1.0	2.1	<1.0		
MW-503B	µg/L	5/8/2012	11000	920	170	820	1800	250	<1.0	<10	150	770	100	<1.0	<1.0	<1.0	6.0	<1.0	<1.0	0.56	2.5		
MW-503B	µg/L	8/30/2012	2000	130	19	100	190	39	3.9	<10	98	120	34	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0		
MW-503B	µg/L	11/5/2012	680	120	2.1	5.4	19	4.4	1.3	12	23	24	5.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0		
MW-503B	µg/L	1/30/2013	1100	52	18	41	130	55	<1.0	<10	140	120	35	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0		
MW-503B	µg/L	4/8/2013	720	64	4.3	17	47	12	2.8	20	76	39	8.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0		
MW-503B	µg/L	4/8/2013	600	62	4.1	16	44	11	2.7	19	75	36	8.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0		
MW-503B	µg/L	9/5/2013	4600	730	46	140	370	13	<1.0	<10	42	87	25	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<0.50	2.1		
MW-701	µg/L	2/4/2011	190	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	4.3	1.6	9.5	1.7	<1.0	<0.50	<1.0		
MW-701	µg/L	4/11/2011	230	1.1	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	14	2.3	14	3.8	1.0	<0.50	6.0		
MW-701	µg/L	8/30/2011	190	2.5	<0.50	<0.50	<1.0	<0.50	<1.0	<10	19	<1.0	<1.0	<1.0	14	2.3	9.0	3.4	<1.0	<0.50	5.2		
MW-701	µg/L	8/30/2011	290	2.7	<0.50	<0.50	<1.0	<0.50	<1.0	<10	29	<1.0	<1.0	<1.0	11	2.0	7.7	2.8	<1.0	<0.50	4.0		
MW-701	µg/L	11/16/2011	310	2.5	0.62	1.4	3.5	1.8	<1.0	<10	7.6	3.4	<1.0	1.3	13	<1.0	9.2	4.6	<1.0	<0.50	<1.0		
MW-701	µg/L	2/1/2012	300	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	8.9	3.8	14	4.3	<1.0	<0.50	<1.0		
MW-701	µg/L	5/11/2012	260	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	15	3.8	14	<1.0	<1.0	<0.50	5.5		
MW-701	µg/L	8/31/2012	350	0.75	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	2.7	16	2.9	18	5.3	<1.0	<0.50	3.7	
MW-701	µg/L	8/31/2012	340	0.94	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	15	2.5	15	2.8	17	5.0	<1.0	<0.50	3.5
MW-701	µg/L	11/13/2012	300	0.95	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	5.9	3.1	18	5.1	<1.0	<0.50	31		
MW-701	µg/L	2/4/2013	93	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	5.4	<1.0	22	4.0	<1.0	<0.50	4.0		
MW-701	µg/L	4/10/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.8	<1.0	7.3	<1.0	<1.0	<0.50	<1.0		
MW-701	µg/L	8/27/2013	52	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	2.3	8.5	33	5.4	1.0	<0.50	8.5		
MW-702	µg/L	2/4/2011	2300	91	0.74	0.92	<1.0	<0.50	<1.0	<10	5.2	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0		
MW-702	µg/L	4/12/2011	910	6.3	<0.50	<0.50	<1.0	<0.50	<1.0	<10	32	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	1.3	<0.50	1.1			
MW-702	µg/L	8/30/2011	260	15	<0.50	<0.50	<1.0	<0.50	<1.0	<10	59	<1.0	<1.0	<1.0	<1.0	2.9	<1.0	<1.0	<1.0	<0.50	1.1		
MW-702	µg/L	11/16/2011	1400	99	0.59	0.51	<1.0	<0.50	<1.0	<10	2.9	<1.0	1.0	<1.0	<1.0	2.5	<1.0	1.2	<0.50	<1.0			
MW-702	µg/L	2/9/2012	1400	480	1.3	0.65	<1.0	<0.50	<1.0	<10	3.4	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0		
MW-702	µg/L	2/9/2012	1500	470	1.3	0.71	<1.0	<0.50	<1.0	<10	3.3	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0		
MW-702	µg/L	5/11/2012	6000	2700	2.7	1.0	1.4	0.85	<1.0	<10	4.2	<1.0											

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC	
MW-703	µg/L	11/17/2011	1400	150	3.4	21	4.7	<0.50	<1.0	<10	<1.0	2.2	1.0	<1.0	<1.0	<1.0	9.2	<1.0	<1.0	<0.50	<1.0	
MW-703	µg/L	2/14/2012	470	48	0.72	1.4	1.9	<0.50	<1.0	<10	1.1	<1.0	<1.0	<1.0	2.6	1.0	28	3.0	<1.0	<0.50	2.5	
MW-703	µg/L	5/11/2012	500	10	<0.50	0.55	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	14	<1.0	<1.0	<0.50	1.1	
MW-703	µg/L	8/31/2012	490	39	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	12	1.5	<1.0	<0.50	1.2	
MW-703	µg/L	8/31/2012	430	40	<0.50	0.52	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	13	1.5	<1.0	<0.50	1.1	
MW-703	µg/L	11/14/2012	280	4.1	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	14	2.5	<1.0	<0.50	9.5	
MW-703	µg/L	2/4/2013	180	13	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	2.5	<1.0	<1.0	<1.0	14	1.7	<1.0	<0.50	<1.0	
MW-703	µg/L	4/10/2013	<50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.7	<1.0	<1.0	<0.50	<1.0	
MW-703	µg/L	8/27/2013	<50	8.7	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	21	1.9	<1.0	<0.50	<1.0	
MW-704	µg/L	2/9/2011	27000	1800	2000	610	3600	680	210	<10	120	1200	520	<1.0	2.3	<1.0	2.5	<1.0	1.2	38	<1.0	
MW-704	µg/L	2/9/2011	26000	1900	2400	620	3700	720	430	<10	96	1300	550	<1.0	<1.0	<1.0	2.5	<1.0	1.3	40	<1.0	
MW-704	µg/L	4/13/2011	5400	170	110	200	190	68	73	<10	38	<1.0	<1.0	<1.0	<1.0	<1.0	5.6	<1.0	6.0	7.0	2.0	
MW-704	µg/L	8/31/2011	11000	570	600	300	540	180	180	160	58	410	170	<1.0	<1.0	<1.0	3.8	<1.0	3.5	25	1.5	
MW-704	µg/L	11/17/2011	10000	550	430	420	520	180	190	<10	37	490	210	<1.0	<1.0	<1.0	3.4	<1.0	3.9	18	<1.0	
MW-704	µg/L	2/14/2012	7700	310	89	390	530	95	100	73	50	500	210	<1.0	<1.0	<1.0	5.3	<1.0	5.7	5.9	3.1	
MW-704	µg/L	2/14/2012	7800	320	89	410	560	96	130	80	53	510	220	<1.0	<1.0	<1.0	4.5	<1.0	4.9	6.2	2.3	
MW-704	µg/L	5/14/2012	11000	450	250	360	520	99	130	45	61	410	150	<1.0	<1.0	<1.0	2.8	<1.0	3.3	12	1.2	
MW-704	µg/L	5/14/2012	9000	460	260	360	530	98	140	56	77	420	150	<1.0	<1.0	<1.0	3.0	<1.0	3.4	12	1.2	
MW-704	µg/L	9/4/2012	7800	580	30	550	760	33	44	24	3.6	670	260	<1.0	<1.0	<1.0	2.4	<1.0	2.6	3.4	<1.0	
MW-704	µg/L	11/14/2012	8700	2200	150	1200	1700	170	610	60	150	1000	430	<1.0	<1.0	<1.0	<1.0	<1.0	27	2.2		
MW-704	µg/L	11/14/2012	14000	1800	120	1200	1500	150	260	43	100	1100	440	<1.0	<1.0	<1.0	<1.0	<1.0	18	2.4		
MW-704	µg/L	2/5/2013	1500	390	440	73	340	110	61	<10	44	91	24	<1.0	<1.0	<1.0	<1.0	<1.0	37	<1.0		
MW-704	µg/L	4/15/2013	3900	420	29	200	300	10	97	<10	57	530	170	<1.0	<1.0	<1.0	3.0	<1.0	3.2	6.1	1.1	
MW-704	µg/L	9/6/2013	8900	860	14	600	810	19	250	<10	25	460	120	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	9.6	<1.0	
MW-705	µg/L	2/4/2011	3100	450	3.5	5.1	6.4	0.54	90	94	6.7	<1.0	1.3	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<0.50	<1.0	
MW-705	µg/L	4/12/2011	930	55	0.87	1.7	1.6	<0.50	22	31	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	<0.50	<1.0
MW-705	µg/L	8/31/2011	1300	79	1.4	3.3	2.3	<0.50	13	66	<1.0	1.9	1.3	<1.0	<1.0	<1.0	4.2	<1.0	<1.0	0.56	1.2	
MW-705	µg/L	11/17/2011	1100	56	7.6	24	29	6.3	73	<10	38	31	9.8	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<0.50	<1.0	
MW-705	µg/L	2/14/2012	410	52	1.2	7.0	7.8	0.66	250	240	3.3	8.1	3.8	<1.0	<1.0	<1.0	8.9	1.3	<1.0	<0.50	1.8	
MW-705	µg/L	2/14/2012	440	49	0.86	5.6	5.7	<0.50	250	230	<1.0	5.0	2.6	<1.0	<1.0	<1.0	8.3	1.3	<1.0	<0.50	1.5	
MW-705	µg/L	5/14/2012	600	27	1.2	2.8	5.6	0.76	64	49	12	5.9	2.0	<1.0	<1.0	<1.0	7.4	1.4	<1.0	<0.50	<1.0	
MW-705	µg/L	5/14/2012	610	36	<0.50	2.1	5.6	<0.50	60	33	<1.0	1.1	<1.0	<1.0	<1.0	1.0	<1.0	8.3	1.8	<1.0	<0.50	
MW-705	µg/L	9/4/2012	100	0.79	<0.50	<0.50	<1.0	<0.50	12	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	13	2.0	<1.0	0.51	<1.0	
MW-705	µg/L	11/14/2012	100	5.1	0.56	7.9	9.9	0.94	2.1	47	22	9.7	3.2	<1.0	<1.0	<1.0	9.2	2.3	<1.0	<0.50	3.6	
MW-705	µg/L	11/14/2012	100	<0.50	<0.50	<0.50	<1.0	<0.50	1.7	24	<1.0	<1.0	<1.0	<1.0	&							

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
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3Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC	
MW-706	µg/L	5/14/2012	1500	23	1.0	1.0	2.6	0.53	7.0	17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.0	<1.0	<1.0	<0.50	1.6	
MW-706	µg/L	9/4/2012	410	12	<0.50	<0.50	1.2	<0.50	5.8	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.8	<1.0	<1.0	<0.50	1.2	
MW-706	µg/L	11/15/2012	<50	2.6	<0.50	3.0	4.1	<0.50	6.6	110	6.1	3.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-706	µg/L	11/15/2012	<50	3.1	<0.50	0.86	1.1	<0.50	5.6	110	2.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-706	µg/L	2/5/2013	<50	<0.50	0.80	0.53	2.4	1.2	<1.0	31	4.6	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-706	µg/L	4/15/2013	260	5.9	<0.50	<0.50	<1.0	<0.50	2.8	54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.0	<1.0	<1.0	<0.50	1.0
MW-706	µg/L	4/15/2013	250	5.1	<0.50	<0.50	<1.0	<0.50	3.2	61	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.9	<1.0	<1.0	<0.50	1.5	
MW-706	µg/L	8/30/2013	110	9.6	<0.50	<0.50	<1.0	<0.50	5.6	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.7	<1.0	<1.0	<0.50	2.1	
MW-707	µg/L	2/4/2011	2000	520	120	7.6	120	150	15	<10	<1.0	10	7.8	4.1	8.7	<1.0	7.0	6.9	<1.0	2.7	<1.0	
MW-707	µg/L	4/8/2011	7000	1000	560	180	670	310	15	<10	26	74	27	<1.0	3.2	<1.0	8.7	1.6	<1.0	4.0	<1.0	
MW-707	µg/L	9/1/2011	2200	1200	95	92	1500	170	17	46	87	160	35	<1.0	<1.0	<1.0	6.6	<1.0	<1.0	<0.50	4.6	
MW-707	µg/L	11/18/2011	8300	930	120	55	1900	120	<1.0	<10	150	250	53	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-707	µg/L	2/1/2012	10000	1200	150	100	1100	96	<1.0	<10	110	220	69	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-707	µg/L	5/15/2012	9700	1000	200	82	870	74	15	12	120	190	42	<1.0	<1.0	<1.0	3.2	<1.0	<1.0	<0.50	2.3	
MW-707	µg/L	9/4/2012	6700	1400	41	26	220	29	9.7	<10	5.2	55	26	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	1.3	1.5	
MW-707	µg/L	11/15/2012	310	180	11	6.6	29	9.5	2.3	<10	21	11	2.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-707	µg/L	2/5/2013	92	49	5.4	2.5	19	5.3	1.4	<10	27	5.4	2.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-707	µg/L	4/8/2013	240	92	5.6	5.2	27	5.0	2.1	<10	29	6.0	2.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-707	µg/L	8/30/2013	2800	550	19	12	40	6.7	<1.0	<10	26	5.3	4.7	<1.0	<1.0	<1.0	3.2	<1.0	<1.0	<0.50	<1.0	
MW-708	µg/L	2/4/2011	530000	1400	420	3000	8100	13	330	<10	370	2200	92	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-708	µg/L	9/1/2011	38000	1900	230	1200	2200	54	2300	2500	150	440	430	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-708	µg/L	11/18/2011	18000	1100	62	630	860	30	1000	<100	180	940	390	<10	<10	<10	<10	<10	<10	<5.0	<10	
MW-708	µg/L	2/10/2012	18000	1700	74	770	1000	38	830	<10	170	1100	410	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-708	µg/L	5/15/2012	57000	870	39	550	750	18	450	120	110	430	380	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.86	<1.0	
MW-708	µg/L	9/5/2012	17000	1400	75	710	1000	32	390	<10	160	1400	520	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-708	µg/L	11/16/2012	1000	73	0.57	5.4	9.5	0.58	3.8	55	4.0	37	13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-708	µg/L	2/11/2013	3200	46	2.8	19	39	4.0	52	<10	79	200	62	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-708	µg/L	4/11/2013	25000	1100	54	510	920	27	790	350	290	1700	670	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<0.50	<1.0	
MW-708	µg/L	4/11/2013	240000	990	54	430	890	24	670	260	680	2000	780	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<0.50	<1.0	
MW-709	µg/L	2/4/2011	500	16	1.0	<0.50	4.8	1.1	2.8	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-709	µg/L	4/6/2011	580	26	0.86	0.89	4.1	0.72	4.6	<10	2.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-709	µg/L	9/1/2011	9900	1.1	<0.50	0.91	4.6	1.2	7.6	60	<1.0	2.4	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-709	µg/L	11/21/2011	1100	<0.50	<0.50	0.77	2.1	0.75	6.4	<10	4.6	1.4	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-709	µg/L	2/10/2012	760	<0.50	<0.50	<0.50	<1.0	<0.50	4.4	180	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-709																						

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-710	µg/L	4/7/2011	<50	0.81	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	76	72	4.1	19	56	4.9	1.5	2.0
MW-710	µg/L	4/7/2011	100	0.84	<0.50	<0.50	<1.0	<0.50	<1.0	<10	1.0	<1.0	<1.0	82	92	4.0	18	54	4.7	1.5	1.9
MW-710	µg/L	9/2/2011	380	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	76	97	2.0	17	50	4.3	1.2	1.1
MW-710	µg/L	9/2/2011	100	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	76	100	2.2	18	54	4.6	1.2	1.3
MW-710	µg/L	11/21/2011	95	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	51	71	1.5	13	35	3.6	<0.50	<1.0
MW-710	µg/L	11/21/2011	79	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	52	71	1.5	13	34	3.4	<0.50	<1.0
MW-710	µg/L	2/1/2012	170	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	66	110	2.1	23	71	6.0	<0.50	<1.0
MW-710	µg/L	5/16/2012	130	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	53	77	1.2	19	48	4.4	<0.50	<1.0
MW-710	µg/L	9/5/2012	100	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	3.8	1.0	<1.0	77	91	<1.0	16	56	3.9	<0.50	1.2
MW-710	µg/L	11/16/2012	95	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	81	130	2.0	19	86	4.8	<0.50	8.2
MW-710	µg/L	2/11/2013	55	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	75	100	<1.0	18	52	4.0	<0.50	<1.0
MW-710	µg/L	2/11/2013	64	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	86	110	<1.0	19	59	4.4	<0.50	1.1
MW-710	µg/L	4/12/2013	130	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	75	89	1.7	16	41	3.6	<0.50	<1.0
MW-710	µg/L	8/29/2013	58	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	41	67	2.0	13	41	3.1	<0.50	1.2
MW-711	µg/L	2/8/2011	11000	520	440	120	380	250	11	<10	260	180	110	<1.0	8.4	<1.0	4.5	<1.0	<1.0	<0.50	7.5
MW-711	µg/L	4/6/2011	7100	<0.50	<0.50	65	160	50	20	<10	420	52	36	<1.0	1.1	<1.0	2.6	<1.0	<1.0	<0.50	8.7
MW-711	µg/L	9/2/2011	44000	1600	1800	650	3000	1100	25	<10	620	1800	550	<1.0	<1.0	1.3	3.8	<1.0	<1.0	<0.50	17
MW-711	µg/L	11/21/2011	14000	370	290	530	1800	790	<1.0	<10	880	480	98	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-711	µg/L	2/10/2012	23000	1900	2100	440	1800	770	14	<10	360	480	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-711	µg/L	5/16/2012	25000	2900	3200	730	3000	1200	14	<10	370	<1.0	300	<1.0	<1.0	<1.0	3.0	<1.0	<1.0	<0.50	5.9
MW-711	µg/L	9/5/2012	28000	2100	2000	640	2000	1100	5.9	<10	370	720	120	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<0.50	5.8
MW-711	µg/L	11/16/2012	35000	6200	7000	1400	4500	2300	4.4	41	350	430	210	<1.0	<1.0	5.9	19	<1.0	1.2	<0.50	120
MW-711	µg/L	2/11/2013	410	75	35	9.8	44	20	<1.0	<10	220	27	7.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-711	µg/L	2/11/2013	410	71	33	9.6	43	20	<1.0	<10	240	24	7.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-711	µg/L	4/12/2013	25000	2000	1500	450	2000	720	<1.0	<10	440	640	200	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<0.50	5.9
MW-712	µg/L	2/9/2011	14000	1200	520	380	1800	390	23	<10	98	460	170	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<0.50	<1.0
MW-712	µg/L	4/7/2011	94	860	140	270	1100	170	32	<10	140	580	220	<1.0	1.8	<1.0	3.4	<1.0	<1.0	0.64	2.2
MW-712	µg/L	9/2/2011	6300	440	77	100	350	72	19	<10	43	180	76	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	0.71	<1.0
MW-712	µg/L	11/21/2011	8000	600	60	90	310	60	<1.0	<10	65	140	72	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-712	µg/L	2/13/2012	8300	850	57	62	180	46	21	94	24	86	44	<1.0	<1.0	<1.0	3.4	<1.0	<1.0	<0.50	1.7
MW-712	µg/L	5/17/2012	8400	650	130	180	740	150	86	22	44	240	77	<1.0	<1.0	<1.0	3.0	<1.0	<1.0	<0.50	1.1
MW-712	µg/L	9/6/2012	10000	1100	27	47	110	40	110	97	49	88	33	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-712	µg/L	11/19/2012	670	55	5.8	8.1	37	8.6	5.9	<10	11	17	4.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-712	µg/L	2/12/2013	3200	690	75	100	460	76	130	<10	37	190	54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-712	µg/L	4/12/2013	5800	540	56	93	390	68	180</												

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-713	µg/L	9/6/2012	9600	1600	3.5	6.4	6.8	1.5	410	75	14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-713	µg/L	11/19/2012	750	350	0.79	1.5	2.1	<0.50	190	73	13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-713	µg/L	2/12/2013	5500	5300	7.0	16	33	1.0	720	<10	17	1.0	9.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-713	µg/L	4/11/2013	8200	4900	8.2	13	37	1.9	760	310	6.8	1.5	13	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	<0.50	<1.0
MW-713	µg/L	4/11/2013	8300	5000	8.4	13	38	2.0	800	320	6.7	1.5	14	<1.0	<1.0	<1.0	2.1	<1.0	<0.50	1.2	
MW-713	µg/L	9/6/2013	99	25	<0.50	0.86	1.4	<0.50	26	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.9	<1.0	<0.50	<1.0	
MW-714	µg/L	2/14/2011	370	1.3	<0.50	<0.50	<1.0	<0.50	10	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	µg/L	4/7/2011	16000	16	4.0	2.1	11	1.9	16	<10	23	4.7	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	µg/L	9/2/2011	500	3.8	<0.50	<0.50	<0.50	1.1	<0.50	9.7	37	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	µg/L	11/22/2011	430	9.0	<0.50	<0.50	<1.0	<0.50	8.4	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-714	µg/L	11/22/2011	490	4.7	<0.50	<0.50	<1.0	<0.50	7.9	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-714	µg/L	2/13/2012	760	3.9	<0.50	<0.50	<1.0	<0.50	7.1	23	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-714	µg/L	2/13/2012	730	5.0	0.72	<0.50	1.1	<0.50	8.4	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	µg/L	5/18/2012	390	2.4	<0.50	<0.50	<1.0	<0.50	7.1	<10	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	µg/L	9/6/2012	500	1.6	<0.50	<0.50	<1.0	<0.50	2.3	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	µg/L	11/19/2012	<50	1.2	<0.50	<0.50	<1.0	<0.50	2.4	20	3.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	µg/L	2/12/2013	86	1.3	<0.50	<0.50	<1.0	<0.50	7.6	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	µg/L	4/11/2013	170	1.3	<0.50	<0.50	<1.0	<0.50	7.2	52	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-714	µg/L	8/29/2013	<50	1.4	<0.50	<0.50	<1.0	<0.50	4.7	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-715	µg/L	2/14/2011	2000	480	12	1.7	24	7.4	2.8	<10	<1.0	2.6	4.2	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	<1.0
MW-715	µg/L	4/8/2011	1500	310	5.6	1.0	3.6	1.6	8.8	<10	3.8	<1.0	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-715	µg/L	9/2/2011	5500	800	2.5	4.0	12	5.3	8.2	22	5.0	4.5	4.8	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	0.56	1.9
MW-715	µg/L	9/2/2011	1100	420	1.4	2.2	6.1	2.5	7.9	20	3.8	2.5	4.6	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	0.53	1.2
MW-715	µg/L	11/22/2011	1500	450	1.5	6.0	<1.0	<0.50	8.5	11	3.5	4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
MW-715	µg/L	2/1/2012	860	270	2.6	1.7	5.6	1.1	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-715	µg/L	5/18/2012	13000	2100	19	1100	1900	350	4.3	<10	230	930	270	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<0.50	2.1
MW-715	µg/L	9/6/2012	610	11	0.56	62	<1.0	<0.50	1.2	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-715	µg/L	11/19/2012	<50	0.52	<0.50	<0.50	<1.0	<0.50	<1.0	<10	2.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-715	µg/L	2/12/2013	<50	0.71	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-715	µg/L	4/12/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-715	µg/L	8/28/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	µg/L	11/1/1989		390	3.9	2.1								<0.5A		<0.5A			3.5A	<0.5A	21
W-1	µg/L	3/1/1990		140	<5	<5								<5		<10			<5	<5	<20
W-1	µg/L	4/1/1990		200	12	12								<5		<5	<25		1.6	<5	<5
W-1	µg/L	12/18/1996																			

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-1	µg/L	7/1/2004	460	14	2.8	1.5	<0.5	<0.5	3J	<100	<5	<5	<5	<5	4J	9.3		1J	<5	2	
W-1	µg/L	10/6/2005	310	43	<1	<1	<1	<1	25	34	<10	<1	<1	<1	1.6	<1		<1	<0.5	7.1	
W-1	µg/L	2/15/2006	266	32	<5	<5	<5	<5	22	37	<5	<5	<5	<5	1.3	<5		<5	<5	3.3	
W-1	µg/L	8/3/2006	1100	86	<2	<2	<2	<2	77	100	<5	<2	<2	<2	<2	<2	<2	<2	<2	<5	
W-1	µg/L	11/9/2006	470	100	<2	<2	<2	<2	65	78	<5	<2	<2	<2	<2	<2	<2	<2	<2	<5	
W-1	µg/L	2/8/2007	500	77	<2	<2	<2	<2	21	<50	<5	<2	<2	<2	<2	<2	<2	<2	<2	<5	
W-1	µg/L	5/10/2007	890	110	0.57	0.61	<2	0.32	28	43	1	<2	<2	<2	0.42	<2		<2	<2	1.8	
W-1	µg/L	8/9/2007	1100	140	0.84	0.84	<2	0.63	64	84	1.1	<2	<2	<2	0.47	<2		0.32	<2	1.9	
W-1	µg/L	11/7/2007	1200	140	1.6	1.2	0.68	0.91	56	80	1.6	0.38	2.1	<0.32		0.7	<0.32		<0.27	<0.28	1.2
W-1	µg/L	2/7/2008	1000	96	<2	<2	<2	<2	31	51	<5	<2	<2	<2	<2	<2	<2	<2	<2	<5	
W-1	µg/L	1/20/2009	230	15	<2	<2	<2	<2	3.1	23	<5	<2	<2	<2	0.87	<2		0.58	<2	2.8	
W-1	µg/L	1/20/2009	220	19	<2	<2	<2	<2	3.9	35	<5	<2	<2	<2	1.1	0.4		0.61	<2	3.7	
W-1	µg/L	4/24/2009	180	3.9	<2	<2	<2	<2	<5	26	<5	<2	<2	<2	1.4	<2		0.74	<2	9.5	
W-1	µg/L	3/5/2010	270	3.3	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	1.3	
W-1	µg/L	5/13/2010	260	9.3	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	1.2	
W-1	µg/L	8/6/2010	260	17	<0.50	<0.50		<0.50	<1.0	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-1	µg/L	11/5/2010	150	15	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-1	µg/L	2/4/2011	200	2.7	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-1	µg/L	4/14/2011	150	1.4	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-1	µg/L	8/26/2011	130	3.9	<0.50	<0.50	<1.0	<0.50	1.3	16	<1.0	<1.0	<1.0	<1.0	<1.0	4.2	<1.0	<1.0	<1.0	<0.50	6.4
W-1	µg/L	11/14/2011	160	12	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-1	µg/L	11/14/2011	160	12	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	5.1	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	µg/L	2/6/2012	160	18	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	3.7	<1.0	<1.0	<1.0	<0.50	2.4
W-1	µg/L	5/7/2012	680	15	<0.50	<0.50	<1.0	<0.50	<1.0	23	<1.0	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<1.0	<0.50	1.8
W-1	µg/L	8/27/2012	180	9.1	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-1	µg/L	11/5/2012	67	1.2	<0.50	<0.50	<1.0	<0.50	<1.0	<10	4.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	µg/L	1/30/2013	120	11	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	µg/L	4/3/2013	<50	1.2	<0.50	<0.50	<1.0	<0.50	<1.0	<10	5.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-1	µg/L	8/28/2013	74	3.8	<0.50	<0.50	<1.0	<0.50	7.6	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	5.1
W-10	µg/L	11/8/2006	26000	8200	5000	570	2100	820	<100	<1000	340	360	110	<40		<40	<40		<40	<40	<100
W-10	µg/L	2/9/2007	28000	6400	2200	520	2200	710	<500	<5000	<500	280	<200	<200		<200	<200	<200	<200	<500	<500
W-10	µg/L	2/9/2007	26000	5100	1600	410	1800	570	<500	<5000	<500	260	<200	<200		<200	<200	<200	<200	<500	<500
W-10	µg/L	5/11/2007	7900	430	140	100	480	130	<10	84	100	130	48	<4		<4	6	8.2	1.2	3.6	
W-10	µg/L	5/11/2007	7800	500	160	110	540	150	<25	85	150	150	53	<10		<10	6.6	8.8	1.4	3.9	
W-10	µg/L	8/9/2007	5400	590	20	82	330	40	<25	68	59	90	33	<10		<10	6.4	8	<10	3	
W-10	µg/L	11/9/2007	<12000	4700	460	330	1300	240	<32	<490	240	190	55	<32		<27	<32		<27	<28	<30
W-10	µg/L	2/8/2008	<28000																		

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-10	µg/L	11/8/2010	7700	2900	45	160	140	6.4	<1.0	<10	180	56	8.1	<1.0	<1.0	<1.0	<1.0	1.0	2.6	1.4	
W-10	µg/L	2/8/2011	11000	2600	100	160	140	28	<1.0	<10	150	61	13	<1.0	<1.0	<1.0	<1.0	<1.0	4.0	<1.0	
W-10	µg/L	4/21/2011	12000	4900	97	240	190	38	<1.0	250	150	65	15	<1.0	<1.0	<1.0	<1.0	1.6	12	<1.0	
W-10	µg/L	9/1/2011	8200	2900	2.2	120	44	1.1	<1.0	140	97	31	5.7	<1.0	<1.0	<1.0	<1.0	<1.0	4.9	<1.0	
W-10	µg/L	11/16/2011	8800	840	3.9	190	92	1.1	<1.0	<10	94	49	10	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-10	µg/L	2/8/2012	10000	3100	5.5	230	150	2.9	<1.0	<10	130	73	12	<1.0	<1.0	<1.0	<1.0	<1.0	5.6	<1.0	
W-10	µg/L	5/10/2012	1000	15	<0.50	1.4	1.2	<0.50	<1.0	<10	21	4.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-10	µg/L	8/28/2012	8200	3100	4.3	160	32	1.4	<1.0	61	270	27	2.8	<1.0	<1.0	<1.0	<1.0	<1.0	2.8	<1.0	
W-10	µg/L	11/7/2012	5100	930	7.9	120	65	2.9	<1.0	65	130	27	4.2	<1.0	<1.0	<1.0	<1.0	<1.0	2.3	<1.0	
W-10	µg/L	1/29/2013	160	4.4	8.1	5.6	22	9.9	<1.0	35	71	15	3.3	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-10	µg/L	4/1/2013	490	6.3	<0.50	<0.50	<1.0	<0.50	<1.0	150	13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-10	µg/L	9/5/2013	8500	3900	7.7	77	71	3.1	<1.0	<10	61	19	4.2	<1.0	<1.0	<1.0	<1.0	<1.0	0.92	<1.0	
W-11	µg/L	11/9/2006	5200	99	12	74	240	37	<5	<50	<5	73	40	<2	<2	18	<2	<2	<2	<5	
W-11	µg/L	11/9/2006	12000	96	7.8	54	140	21	<5	<50	<5	60	34	<2	<2	18	<2	<2	<2	<5	
W-11	µg/L	2/9/2007	8000	95	14	78	280	27	<10	<100	<10	56	28	<4	<4	15	<4	<4	<10		
W-11	µg/L	5/9/2007	540	45	1.6	19	47	3.1	<5	<50	0.68	9	4.4	<2	0.41	18	<2	<2	0.96		
W-11	µg/L	8/8/2007	<1100	700	3.7	36	11	7.1	<5	<50	0.81	15	8.6	<2	<2	9.9	<2	0.29	1.1		
W-11	µg/L	11/8/2007	460	61	1.2	14	37	13	<0.32	<4.9	1	35	17	<0.32	<0.27	10	<0.27	<0.28	<0.3		
W-11	µg/L	12/8/2010	77000	150	51	260	2300	690	17	43	48	1300	800	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<0.50	
W-11	µg/L	2/4/2011	10000	100	1.2	23	100	16	<1.0	<10	7.6	100	180	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-11	µg/L	4/15/2011	6300	410	15	50	390	18	<1.0	<10	3.4	83	280	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-11	µg/L	8/29/2011	10000	560	2.2	57	640	14	<1.0	<10	<1.0	100	190	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-11	µg/L	11/14/2011	10000	620	3.0	100	510	7.5	<1.0	<10	6.0	130	240	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-11	µg/L	2/8/2012	2900	12	<0.50	6.2	50	0.80	<1.0	<10	2.7	24	39	<1.0	<1.0	<1.0	2.0	<1.0	0.90	<1.0	
W-11	µg/L	5/10/2012	1800	8.4	<0.50	3.1	7.3	0.80	<1.0	<10	1.7	4.6	10	<1.0	<1.0	<1.0	2.0	<1.0	0.50	<1.0	
W-11	µg/L	8/28/2012	7400	16	30	47	130	20	<1.0	<10	5.0	70	97	<1.0	<1.0	<1.0	2.1	<1.0	<0.50	<1.0	
W-11	µg/L	11/8/2012	340	23	3.1	1.6	23	2.0	<1.0	<10	2.5	5.0	63	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-11	µg/L	11/19/2012	1400	24	1.6	0.82	6.2	<0.50	<1.0	<10	3.0	3.1	60	<1.0	<1.0	<1.0	5.3	<1.0	<1.0	<0.50	
W-11	µg/L	1/31/2013	300	25	8.2	3.7	25	8.9	<1.0	<10	33	14	42	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-11	µg/L	4/5/2013	250	14	0.75	1.2	3.2	0.57	<1.0	<10	<1.0	1.4	8.9	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-12	µg/L	11/8/2006	1400	<2	<2	<2	<2	<2	<5	55	<5	<2	<2	<2	<2	5.4	<2	<2	<2	<5	
W-12	µg/L	2/7/2007	4800	<2	<2	<2	<2	<2	<5	50	<5	<2	<2	<2	<2	6.8	<2	<2	<2	<5	
W-12	µg/L	5/9/2007	220	<2	<2	<2	<2	<2	<5	40	<5	<2	<2	<2	0.31	4.3	<2	0.37	1.1		
W-12	µg/L	8/8/2007	1100	<2	<2	0.56	<2	<2	0.36	40	<5	<2	<2	<2	<2	3.1	<2	<2	0.85		
W-12	µg/L	11/6/2007	1500	0.37	<0.36	0.97	<0.6	<0.3	1.2	58	0.66	<0.23	<0.26	<0.32	<0.27	2.6	<0.27	0.42	0.47		
W-12	µg/L	2/8/2008	410	0.94	<2	3	<2	<2	0.82	54	2.5	<2	<2	<2	<2	1.8	<2	0.45	<5		
W-12	µg/L	1/20/2009	620	<2	<2	0.69	<2	<2	<5	32	<5	<2	<2	<2	0.48	5.4	<2	<2	2.4		
W-12	µg/L	4/22/2009	1100	<2	<2	2.1	<2	<2	0.33	30	8.2	0.26	<2</								

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC	
W-12	µg/L	11/14/2011	63	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<0.50	<1.0	
W-12	µg/L	2/8/2012	400	<0.50	<0.50	2.2	<1.0	<0.50	<1.0	<10	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	2.3	<1.0	<1.0	<0.50	2.2	
W-12	µg/L	5/9/2012	450	<0.50	<0.50	0.59	<1.0	<0.50	<1.0	27	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<0.50	1.2	
W-12	µg/L	8/30/2012	580	<0.50	<0.50	1.5	1.0	<0.50	<1.0	<10	20	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-12	µg/L	11/8/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-12	µg/L	1/31/2013	<50	<0.50	1.2	1.6	8.4	4.0	<1.0	<10	34	10	2.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-12	µg/L	4/2/2013	150	<0.50	<0.50	3.0	17	4.2	<1.0	<10	26	13	15	4.6	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-12	µg/L	8/30/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.0	<1.0	<1.0	<0.50	5.8	
W-12	µg/L	8/30/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.4	<1.0	<1.0	<0.50	5.9	
W-14A	µg/L	2/12/2008	42	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	2.3		1.1	9		0.46	0.37	<5	
W-14A	µg/L	1/13/2009	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5	
W-14A	µg/L	4/21/2009	54	<2	<2	<2	<2	<2	0.47	8.1	<5	<2	<2	1.3		0.86	8.7		0.44	0.4	<5	
W-14A	µg/L	3/1/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.7		<1.0	<0.50	<1.0	
W-14A	µg/L	5/10/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	1.9		<1.0	<0.50	<1.0	
W-14A	µg/L	8/2/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	3.4		<1.0	<0.50	<1.0	
W-14A	µg/L	11/1/2010	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0		
W-14A	µg/L	1/31/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0		
W-14A	µg/L	4/4/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<0.50	<1.0		
W-14A	µg/L	8/22/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	5.8	1.0	5.2	<1.0	<0.50	<1.0	
W-14A	µg/L	11/7/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.8	<1.0	<0.50	<1.0	
W-14A	µg/L	1/30/2012	200	1.5	<0.50	38	<1.0	<0.50	<1.0	<10	<1.0	1.1	<1.0	<1.0	3.2	<1.0	10	1.4	<1.0	<0.50	<1.0	
W-14A	µg/L	5/1/2012	390	41	<0.50	9.5	1.3	2.7	2.9	<10	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-14A	µg/L	8/20/2012	1600	500	16	34	78	64	2.9	<10	110	57	20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-14A	µg/L	10/26/2012	3800	4500	5.1	150	240	110	1.5	<10	51	120	42	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	4.4	
W-14A	µg/L	1/22/2013	1100	110	<0.50	33	2.2	<0.50	<1.0	<10	13	13	<1.0	<1.0	2.5	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-14A	µg/L	4/1/2013	96	5.8	1.8	1.4	6.6	4.5	<1.0	<10	91	12	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-14A	µg/L	8/29/2013	1900	920	<0.50	18	1.2	1.6	<1.0	<10	8.3	22	<1.0	<1.0	1.9	<1.0	7.2	<1.0	<1.0	<0.50	<1.0	
W-14B	µg/L	2/12/2008	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	0.72		<2	0.83		<2	<2	<5	
W-14B	µg/L	1/13/2009	170	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	8.4		<2	4.8		<2	<2	<5	
W-14B	µg/L	4/21/2009	65	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	19		2.6	9.6		2.2	0.45	<5	
W-14B	µg/L	3/1/2010	99	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	5.6		<1.0	<0.50	<1.0	
W-14B	µg/L	5/10/2010	99	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		1.2	1.1	6.2		<1.0	<0.50	<1.0
W-14B	µg/L	8/2/2010	55	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	3.1		<1.0	<0.50	<1.0	
W-14B	µg/L	11/1/2010	88	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	2.0	45	2.0	10	14	1.2	<0.50	<1.0</

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC	
W-14C	µg/L	2/12/2008	260	1.2	<2	<2	<2	<2	<5	<50	<5	<2	<2	0.89		5.7	22		3.7	0.48	0.58	
W-14C	µg/L	1/14/2009	120	2.5	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		8.8	34		3.4	<2	<5	
W-14C	µg/L	4/21/2009	67	1.5	<2	<2	<2	<2	<5	10	<5	<2	<2	<2		4.5	23		2.1	<2	<5	
W-14C	µg/L	3/1/2010	300	1.6	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		5.8	34		2.4	<0.50	<1.0	
W-14C	µg/L	5/10/2010	120	0.58	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		2.0	13		<1.0	<0.50	<1.0	
W-14C	µg/L	8/2/2010	77	1.1	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		4.6	35		2.4	<0.50	<1.0	
W-14C	µg/L	11/1/2010	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-14C	µg/L	1/31/2011	60	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		3.8	1.1	9.9	3.0	<1.0	<0.50	<1.0
W-14C	µg/L	4/4/2011	<50	1.2	<0.50	<0.50	<1.0	<0.50	<1.0	27	<1.0	<1.0	<1.0	<1.0		24	3.9	30	16	3.1	<0.50	<1.0
W-14C	µg/L	8/22/2011	290	0.73	<0.50	<0.50	<1.0	<0.50	<1.0	22	<1.0	<1.0	<1.0	<1.0		21	2.3	26	12	2.2	<0.50	<1.0
W-14C	µg/L	11/7/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		1.2	<1.0	3.2	<1.0	<1.0	<0.50	<1.0
W-14C	µg/L	1/30/2012	100	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		3.4	<1.0	5.3	2.2	<1.0	<0.50	<1.0
W-14C	µg/L	5/1/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	3.8	<1.0	<1.0	<0.50	<1.0
W-14C	µg/L	8/20/2012	71	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	5.8	1.4	<1.0	<0.50	<1.0
W-14C	µg/L	10/26/2012	<50	0.75	<0.50	<0.50	<1.0	<0.50	<1.0	<10	6.1	<1.0	<1.0	<1.0		<1.0	<1.0	8.4	2.6	<1.0	<0.50	2.6
W-14C	µg/L	1/22/2013	110	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	7.5	2.6	1.1	<0.50	<1.0
W-14C	µg/L	4/1/2013	<50	<0.50	0.88	0.58	2.7	1.7	<1.0	<10	27	2.4	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-14C	µg/L	8/26/2013	84	0.59	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	2.2	35	7.5	1.1	<0.50	<1.0
W-15A	µg/L	2/11/2008	2700	620	4.9	5.1	11	<20	650	120	<50	<20	<20	<20		<20	<20		<20	<20	<50	
W-15A	µg/L	1/14/2009	230	7.4	<2	<2	<2	<2	190	170	<5	<2	<2	<2		<2	<2		<2	<2	<5	
W-15A	µg/L	4/24/2009	530	8.4	<4	<4	<4	<4	220	220	<10	<4	<4	<4		<4	<4		<4	<4	<10	
W-15A	µg/L	3/2/2010	240	0.93	<0.50	<0.50		<0.50	44	94	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0	
W-15A	µg/L	5/10/2010	260	1.5	<0.50	<0.50		<0.50	85	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0	
W-15A	µg/L	8/2/2010	310	0.54	<0.50	<0.50		<0.50	71	180	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0	
W-15A	µg/L	11/1/2010	61	<0.50	<0.50	<0.50	<1.0	<0.50	2.5	88	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0	
W-15A	µg/L	11/1/2010	74	0.66	<0.50	<0.50	1.0	<0.50	6.8	98	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0	
W-15A	µg/L	2/1/2011	14000	1400	610	400	1800	400	260	390	64	490	200	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0		
W-15A	µg/L	4/5/2011	22000	<0.50	<0.50	<0.50	<1.0	<0.50	450	<10	150	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<0.50	<1.0	
W-15A	µg/L	2/2/2012	62000	4400	2400	2400	9900	2300	930	<10	4.6	2900	880	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0		
W-15A	µg/L	5/2/2012	2100000	3900	3600	3900	13000	4400	940	220	450	6200	1800	<10	<10	<10	<10	<10	<5.0	<10		
W-15A	µg/L	8/21/2012	23000	540	370	590	3300	620	160	<250	190	1100	340	<25	<25	<25	<25	<25	<12	<25		
W-15A	µg/L	10/30/2012	4500	41	23	46	260	75	39	120	330	270	120	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0		
W-15A	µg/L	1/23/2013	2400	100	36	57	200	95	57	<10	120	170	94	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0		
W-15A	µg/L	4/2/2013	3400	86	32	79	460	130	72	120	260	230	67	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0		
W-15B	µg/L	2/11/2008	<1600	900	<20	<20	7	<20	20	110	<											

Table III
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Former Powerine Refinery
Santa Fe Springs, CA
3Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC	
W-15B	µg/L	8/23/2011	1400	120	40	17	110	30	260	210	<1.0	13	7.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-15B	µg/L	8/23/2011	1100	110	34	15	100	29	200	220	<1.0	14	7.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-15B	µg/L	11/10/2011	250	17	5.4	2.8	17	3.9	55	<10	<1.0	2.4	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-15B	µg/L	2/2/2012	280	35	14	4.4	31	18	100	80	<1.0	2.3	3.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-15B	µg/L	5/2/2012	780	27	2.6	3.1	18	6.3	200	160	<1.0	4.4	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-15B	µg/L	8/20/2012	98	2.6	<0.50	<0.50	<1.0	0.52	110	87	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-15B	µg/L	10/30/2012	190	9.2	2.2	1.5	12	2.7	49	96	43	4.0	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-15B	µg/L	1/23/2013	300	3.8	1.9	9.0	65	15	12	<10	38	71	25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-15B	µg/L	4/2/2013	430	1.0	2.3	13	87	19	19	180	46	62	19	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-15B	µg/L	9/4/2013	360	6.6	<0.50	<0.50	<1.0	<0.50	38	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-15C	µg/L	2/11/2008	<50	0.94	0.57	<2	<2	<2	<5	18	<5	<2	<2	<2	<2	1.1		0.45	0.35	0.34		
W-15C	µg/L	1/15/2009	29	1.1	<2	<2	<2	<2	<5	27	<5	<2	<2	<2	<2	5.7		1.2	0.86	0.9		
W-15C	µg/L	4/24/2009	43	<2	<2	<2	<2	<2	<5	25	<5	<2	<2	<2	<2	1		<2	<2	<5		
W-15C	µg/L	3/2/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4		<1.0	<0.50	<1.0	
W-15C	µg/L	5/11/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6		<1.0	<0.50	<1.0	
W-15C	µg/L	8/3/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.7		1.0	0.54	1.5	
W-15C	µg/L	11/2/2010	70	<0.50	<0.50	<0.50	<1.0	<0.50	2.9	<10	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.7	<1.0	<0.50	<1.0		
W-15C	µg/L	2/1/2011	94	1.6	0.85	<0.50	2.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	<1.0	2.6	<1.0	<0.50	<1.0	
W-15C	µg/L	4/5/2011	120	10	4.8	1.9	10	2.6	4.2	<10	1.1	<1.0	<1.0	<1.0	4.6	<1.0	6.6	1.5	1.4	<0.50	1.8	
W-15C	µg/L	8/23/2011	89	9.5	3.5	1.4	13	2.7	5.2	<10	<1.0	1.8	<1.0	<1.0	5.5	<1.0	6.5	1.6	<1.0	<0.50	<1.0	
W-15C	µg/L	11/8/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0		
W-15C	µg/L	1/31/2012	53	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	10	<1.0	<1.0	<1.0	<1.0	4.9	<1.0	5.8	1.5	<1.0	<0.50	<1.0
W-15C	µg/L	5/2/2012	60	0.64	0.67	1.4	6.4	1.3	<1.0	<10	<1.0	3.2	1.2	<1.0	1.3	<1.0	2.1	<1.0	<1.0	<0.50	<1.0	
W-15C	µg/L	8/21/2012	140	4.1	1.7	0.92	5.9	1.4	1.7	10	2.9	1.5	<1.0	<1.0	3.7	<1.0	5.2	1.2	<1.0	<0.50	<1.0	
W-15C	µg/L	10/30/2012	120	16	4.9	3.2	36	7.1	3.4	<10	9.9	6.6	2.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-15C	µg/L	1/23/2013	180	<0.50	0.80	4.4	33	7.2	<1.0	<10	19	43	15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-15C	µg/L	4/2/2013	410	20	5.8	9.8	86	21	6.3	25	30	42	13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-15C	µg/L	9/4/2013	<50	0.85	<0.50	<0.50	<1.0	<0.50	8.7	<10	<1.0	<1.0	<1.0	<1.0	<1.0	5.2	<1.0	<1.0	<0.50	<1.0		
W-16A	µg/L	11/9/2007	260	41	<0.36	<0.25	<0.6	<0.3	<0.32	30	<0.41	<0.23	<0.26	<0.32		<0.27	<0.32		2.6	<0.28	16	
W-16A	µg/L	2/6/2008	310	40	<2	<2	<2	<2	<5	34	<5	<2	0.63	<2		0.88	<2		2.8	<2	14	
W-16A	µg/L	1/21/2009	290	30	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		2.5	<2	7.2	
W-16A	µg/L	4/27/2009	410	34	<2	<2	<2	<2	<2	<5	20	<5	<2	<2	0.54	<2		1.8	<2	17		
W-16A	µg/L	3/5/2010	220	4.2	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	2.9	
W-16A	µg/L	5/14/2010	110	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0	
W-16A	µg/L	8/9/2010	120	0.93	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1	

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3Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC	
W-16A	µg/L	1/23/2013	84	<0.50	<0.50	0.81	5.4	1.3	<1.0	43	6.5	11	3.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
W-16A	µg/L	4/3/2013	340	20	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	<0.50	<1.0		
W-16A	µg/L	9/3/2013	210	65	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.3	<0.50	<1.0		
W-16B	µg/L	11/9/2007	37	7.4	<0.36	<0.25	<0.6	<0.3	<0.32	9.1	0.8	0.26	<0.26	<0.32		8.7	6.6		<0.27	<0.28	<0.3	
W-16B	µg/L	2/6/2008	400	48	<2	0.33	<2	<2	<5	9.9	1.9	0.4	<2	<2		43	27		<2	<2	<5	
W-16B	µg/L	1/21/2009	73	16	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		15	9.7		<2	<2	<5	
W-16B	µg/L	4/27/2009	47	0.9	<20	<20	<20	<20	<50	<500	<50	<20	<20	<20		9.4	6.1		<20	<20	<50	
W-16B	µg/L	3/8/2010	73	8.6	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		3.7	5.8		<1.0	<0.50	<1.0	
W-16B	µg/L	5/14/2010	60	3.0	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		1.0	3.0		<1.0	<0.50	<1.0	
W-16B	µg/L	8/9/2010	<50	1.3	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0	
W-16B	µg/L	11/5/2010	110	23	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		9.4	13	<1.0	1.2	<0.50	<1.0	
W-16B	µg/L	2/7/2011	290	80	<0.50	<0.50	<1.0	<0.50	<1.0	<10	18	<1.0	<1.0	<1.0		3.5	50	70	2.0	8.5	<0.50	2.9
W-16B	µg/L	4/18/2011	550	100	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		6.4	100	89	2.6	9.2	<0.50	10
W-16B	µg/L	8/26/2011	89	20	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		12	16	<1.0	1.4	<0.50	1.1	
W-16B	µg/L	11/8/2011	<50	24	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		1.0	19	13	<1.0	1.5	<0.50	<1.0
W-16B	µg/L	2/3/2012	210	30	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		1.4	24	16	<1.0	1.3	<0.50	<1.0
W-16B	µg/L	5/3/2012	410	150	<0.50	0.58	2.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		3.2	100	52	1.2	6.8	<0.50	23
W-16B	µg/L	8/22/2012	61	8.7	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		3.5	6.0	<1.0	<1.0	<0.50	<1.0	
W-16B	µg/L	10/31/2012	58	13	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		6.6	4.2	<1.0	<1.0	<0.50	15	
W-16B	µg/L	1/23/2013	80	3.5	<0.50	<0.50	2.9	0.82	<1.0	<10	4.9	5.7	1.8	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	<0.50	<1.0	
W-16B	µg/L	4/3/2013	<50	3.4	<0.50	<0.50	1.1	0.79	<1.0	<10	9.1	1.5	<1.0	<1.0	<1.0		1.2	1.9	<1.0	<1.0	<0.50	<1.0
W-16B	µg/L	8/28/2013	200	63	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		17	10	<1.0	1.8	<0.50	5.2	
W-16C	µg/L	11/9/2007	170	18	<0.36	<0.25	<0.6	<0.3	<0.32	13	<0.41	<0.23	<0.26	<0.32		12	40		11	<0.28	5.6	
W-16C	µg/L	2/6/2008	360	30	0.46	<2	<2	<2	<5	21	<5	<2	<2	<2		14	66		24	<2	18	
W-16C	µg/L	1/21/2009	510	40	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		17	73		35	<2	24	
W-16C	µg/L	4/28/2009	170	20	<2	<2	<2	<2	<5	8.2	<5	<2	<2	<2		12	41		14	<2	8.2	
W-16C	µg/L	3/8/2010	95	2.5	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		1.2	9.1		1.6	<0.50	<1.0	
W-16C	µg/L	5/14/2010	63	1.3	<0.50	<0.50	<0.50		<1.0	<10	<1.0	<1.0	<1.0	<1.0			3.8		1.2	<0.50	<1.0	
W-16C	µg/L	8/9/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0	
W-16C	µg/L	8/9/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0	
W-16C	µg/L	11/5/2010	390	14	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		7.6	30	1.4	11	<0.50	9.6	
W-16C	µg/L	2/7/2011	440	33	0.54	<0.50	<1.0	<0.50	<1.0	<10	6.9	<1.0	<1.0	<1.0		<1.0	15	68	3.3	22	<0.50	14
W-16C	µg/L	4/18/2011	510	39	0.51	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		1.2	20	80	4.7	32	<0.50	30
W-16C	µg/L	8/26/2011	320	30	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		15	63	2.8	24	<0.50	16	
W-16C	µg/L	11/9/2011	270	24	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		1.2	16</td					

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC	
W-17A	µg/L	2/14/2008	100	<2	<2	<2	<2	<2	<5	140	<5	<2	<2	<2	<2	<2	6.2		0.47	1.4	0.7	
W-17A	µg/L	1/16/2009	78	<2	<2	<2	<2	<2	<5	54	0.41	0.33	<2	<2		0.39	1.4		<2	<2	<5	
W-17A	µg/L	4/22/2009	180	4.5	<2	<2	<2	<2	<5	57	<5	<2	<2	<2		1.9	7.7		0.51	0.65	<5	
W-17A	µg/L	3/3/2010	51	<0.50	<0.50	<0.50		<0.50	<1.0	14	<1.0	<1.0	<1.0	<1.0		<1.0	1.6		<1.0	<0.50	<1.0	
W-17A	µg/L	5/12/2010	110	1.1	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	4.2		<1.0	<0.50	<1.0
W-17A	µg/L	8/4/2010	56	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	1.7		<1.0	<0.50	<1.0
W-17A	µg/L	11/3/2010	69	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	1.3		<1.0	<0.50	<1.0
W-17A	µg/L	2/2/2011	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	2.0		<1.0	<0.50	<1.0
W-17A	µg/L	4/20/2011	<50	<0.50	<0.50	<0.50		<0.50	<1.0	38	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	2.9		<1.0	<0.50	<1.0
W-17A	µg/L	8/24/2011	98	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	2.5		<1.0	<0.50	<1.0
W-17A	µg/L	11/9/2011	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0		9.6	<1.0		<1.0	<0.50	<1.0
W-17A	µg/L	2/7/2012	<50	<0.50	<0.50	<0.50		<0.50	<1.0	17	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	1.5		<1.0	<0.50	<1.0
W-17A	µg/L	5/4/2012	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	3.8		<1.0	<0.50	<1.0
W-17A	µg/L	8/23/2012	<50	<0.50	<0.50	<0.50		<0.50	<1.0	12	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	2.9		<1.0	<0.50	<1.0
W-17A	µg/L	11/1/2012	100	<0.50	<0.50	<0.50		<0.50	<1.0	12	<1.0	<1.0	<1.0	<1.0	<1.0		6.6	1.1		<1.0	<0.50	<1.0
W-17A	µg/L	1/25/2013	<50	<0.50	<0.50	<0.50		<0.50	1.7	<0.50	<1.0	<10	2.6	2.4	<1.0	<1.0	<1.0	<1.0		<1.0	<0.50	<1.0
W-17A	µg/L	4/9/2013	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<0.50	<1.0
W-17A	µg/L	8/26/2013	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0		1.2	13	2.2	<1.0	<0.50	<1.0
W-17B	µg/L	2/14/2008	39	<2	<2	<2	<2	<2	<5	30	<5	<2	<2	<2	<2		1.4			<2	<2	<5
W-17B	µg/L	1/16/2009	38	<2	<2	<2	<2	<2	<5	18	<5	<2	<2	<2	<2		<2	<2		<2	<2	<5
W-17B	µg/L	4/22/2009	<50	<2	<2	<2	<2	<2	<5	18	<5	<2	<2	<2	<2		0.71			<2	<2	<5
W-17B	µg/L	3/3/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17B	µg/L	5/12/2010	54	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17B	µg/L	8/5/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17B	µg/L	11/3/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17B	µg/L	2/2/2011	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17B	µg/L	4/20/2011	<50	<0.50	<0.50	<0.50		<0.50	<1.0	35	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17B	µg/L	8/24/2011	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17B	µg/L	11/9/2011	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17B	µg/L	2/7/2012	<50	<0.50	<0.50	<0.50		<0.50	<1.0	14	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17B	µg/L	5/4/2012	<50	<0.50	<0.50	<0.50		<0.50	<1.0	10	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17B	µg/L	8/23/2012	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17B	µg/L	11/1/2012	<50	<0.50	<0.50	<0.50		<0.50	<1.0	24	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-17B	µg/L	1/25/2013	<50	<0.50	<0.50	<0.50		2.0														

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-17C	µg/L	8/24/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-17C	µg/L	11/9/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-17C	µg/L	2/7/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-17C	µg/L	5/4/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-17C	µg/L	8/23/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-17C	µg/L	11/1/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-17C	µg/L	1/25/2013	<50	<0.50	<0.50	<0.50	1.3	<0.50	<1.0	<10	2.0	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-17C	µg/L	4/9/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-17C	µg/L	8/27/2013	<50	<0.50	0.54	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-3A	µg/L	1/13/1998	4300000	150000	<6000	35000			<200000												
W-3A	µg/L	8/20/1998	1100	220	<25	33			440		350	<25	<25	<25	<25	<25	<25	<25	<25	<25	
W-3A	µg/L	1/28/1999	690	160	<50	<50			340		240	<50	<50	<50	<50	<50	<50	<50	<50	<50	
W-3A	µg/L	7/19/1999	5400	120	<20	<20			380		<200	37	<20	<20	<20	<20	<20	<20	<20	<10	
W-3A	µg/L	1/13/2000	14000	140	<10	<10			210		<100	<10	<10	<10	<10	<10	<10	<10	<5	7	
W-3A	µg/L	8/4/2000	3400	170	<20	8.4			220		<50	2	2	<2	<2	<20	<20	<20	<1	5	
W-3A	µg/L	2/8/2001	2700	34	<1	2.9			12		63	13	4.4	<1	<1	<1	<1	<1	<0.5	1.7	
W-3A	µg/L	7/26/2001	3400	42	<1	1.7			6.2		11	15	<1	<1	<1	<1	<1	<1	<0.5	27	
W-3A	µg/L	5/6/2002	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
W-3A	µg/L	9/25/2002	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
W-3A	µg/L	2/16/2006	306	<1	<5	<5	<5	<5	6.2	16	<5	18	16	<5	<5	<5	<5	<5	<5		
W-3A	µg/L	8/3/2006	39000	<2	<2	<2	<2	<2	<2	9	<50	38	<2	<2	<2	<2	<2	<2	<2		
W-3A	µg/L	11/9/2006	8100	<2	<2	<2	<2	<2	<2	11	<50	37	6.4	9.5	<2	<2	<2	<2	<2		
W-3A	µg/L	2/8/2007	1400	<2	<2	<2	<2	<2	<2	8.4	<50	30	3.9	6.1	<2	<2	<2	<2	<5		
W-3A	µg/L	5/10/2007	14000	0.66	<2	<2	<2	<2	<2	7.8	23	16	2.3	3.6	<2	<2	<2	<2	<5		
W-3A	µg/L	8/9/2007	1900	0.79	<2	<2	<2	<2	0.34	9.8	26	14	2	2.3	<2	<2	<2	<2	<5		
W-3A	µg/L	11/7/2007	1500	0.62	<0.36	<0.25	<0.6	<0.3	9.7	26	<0.41	0.64	0.67	<0.32	<0.27	<0.32	<0.27	<0.28	<0.3		
W-3A	µg/L	2/7/2008	180	<2	<2	<2	<2	<2	<2	10	<50	<5	<2	<2	<2	<2	<2	<2	<2		
W-4	µg/L	3/1/1990		120	<0.5	19								<0.5		<0.5	3.2		8.3	<0.5	
W-4	µg/L	4/1/1990		28	1.4	4.8								<1		<1	0.81		2.2	<1	
W-4	µg/L	12/18/1996	420	80	<5	<5			<10		<5	<5	<5	<5	<5	<5	<5	<5	<5		
W-4	µg/L	1/14/1998	920	120	<5	<5			<5		<10	<5	<5	<5	<5	<5	<5	<5	<5		
W-4	µg/L	8/20/1998	500	57	<5	<5			18		<10	<5	<5	<5	<5	<5	<5	<5	<5		
W-4	µg/L	1/29/1999	460	55	<5	<5			20		<10	<5	<5	<5	<5	<5	<5	<5	<5		
W-4	µg/L	7/19/1999	710	72	<2	<2			<2		<20	<2	<2	<2	<2	<2	<2	<2	<1		
W-4	µg/L	1/13/2000	660	49	<1	<1			<1		<10	<1	<1	<1	<1	<1	1.3		<1		
W-4	µg/L	8/3/2000	<500	47	<1	<1					<10	<1	<1	<1	<1	1.2	<1		<0.5		
W-4	µg/L	2/8/2001	<500	42	<1	<1			<1		<10	<1	<1	<1	<1	<1	<1	0.67	7		
W-4	µg/L	7/26/2001	320	42	<1	<1			<1		<10	<1	<1	<1	<1	<1	<1	1	<0.5		
W-4	µg/L	5/8/2002	250	33	<1	<1			<1	60000	<10	<1	<1	<1	<1	2	<1	1.3	<0.5		
W-4	µg/L	9/25/2002	290	62	<1	<1			<1	45000	<1	<1	<1	<1	<1	3.8	<1	2	<0.5		
W-4	µg/L	7/1/2004	350	30	2.6	1.9	0.66	<0.5	<5	<											

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
3Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-4	µg/L	2/8/2007	200	3.1	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2	<2	<2	4.7	<2	<2	<5	
W-4	µg/L	5/10/2007	170	1.5	<2	<2	<2	<2	1.6	30	<5	<2	<2	<2	<2	<2	3.8	<2	<2	1	
W-4	µg/L	8/9/2007	280	1	<2	<2	<2	<2	2	18	<5	<2	<2	<2	<2	<2	3.2	<2	<2	0.59	
W-4	µg/L	11/7/2007	180	1.9	<0.36	<0.25	<0.6	<0.3	1.4	22	<0.41	<0.23	<0.26	<0.32	<0.27	<0.27	3.6	0.36	<0.28	<0.3	
W-4	µg/L	2/7/2008	210	4.4	<2	<2	<2	<2	<5	55	<1	<2	<2	<2	<1	4.4	<2	<2	<5		
W-4	µg/L	2/7/2008	250	3.9	<2	<2	<2	<2	<5	50	<5	<2	<2	<2	<2	<2	4	<2	<2	<5	
W-4	µg/L	1/19/2009	140	0.51	<2	<2	<2	<2	<5	47	0.43	<2	<2	<2	<2	<2	7.6	1	<2	1.8	
W-4	µg/L	4/27/2009	92	<2	<2	<2	<2	<2	<5	34	<5	<2	<2	<2	<2	<2	7.3	0.61	<2	1.9	
W-4	µg/L	3/5/2010	600	1.5	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.7	<1.0	<0.50	7.4	
W-4	µg/L	5/13/2010	700	4.3	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.1	<1.0	<0.50	5.4	
W-4	µg/L	8/6/2010	570	68	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.0	<1.0	<0.50	7.2	
W-4	µg/L	11/4/2010	980	180	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	4.8	
W-4	µg/L	2/8/2011	1800	480	<0.50	1.2	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<0.50	8.6	
W-4	µg/L	4/14/2011	1400	460	0.59	1.2	<1.0	<0.50	1.1	38	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<0.50	11
W-4	µg/L	8/25/2011	840	190	<0.50	<0.50		<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	1.8	
W-4	µg/L	11/14/2011	1200	390	<2.5	0.76	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-4	µg/L	2/6/2012	1100	410	<0.50	0.79	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	6.2	
W-4	µg/L	5/7/2012	910	140	<0.50	<0.50		<1.0	<0.50	<1.0	21	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	4.1
W-4	µg/L	8/27/2012	910	<0.50	<0.50		<0.50	<1.0	<0.50	1.9	24	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	2.8
W-4	µg/L	11/5/2012	<50	<0.50	<0.50		<0.50	<1.0	<0.50	<1.0	<10	6.3	2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-4	µg/L	1/30/2013	160	28	<0.50	<0.50		<1.0	<0.50	<1.0	<10	<1.0	1.2	<1.0	<1.0	<1.0	1.5	<1.0	<0.50	<1.0	
W-4	µg/L	1/30/2013	190	43	<0.50	<0.50		<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<0.50	<1.0	
W-4	µg/L	4/8/2013	360	18	<0.50	<0.50		<1.0	<0.50	2.8	77	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.3	<1.0	<0.50	3.8
W-4	µg/L	9/3/2013	150	8.7	<0.50	<0.50		<1.0	<0.50	1.7	<10	<1.0	<1.0	<1.0	<1.0	<1.0	3.1	<1.0	<0.50	7.6	
W-4	µg/L	9/3/2013	170	8.9	<0.50	<0.50		<1.0	<0.50	1.7	<10	<1.0	<1.0	<1.0	<1.0	<1.0	3.2	<1.0	<0.50	8.0	
W-7	µg/L	8/4/2000	<500	<0.5	<1	<1			<1		<1	<1	<1	<1	<1	<1	<0.5	1.2	<1	<0.5	
W-7	µg/L	2/8/2001	<500	<0.5	<1	<1			<1		<10	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	
W-7	µg/L	7/26/2001	<100	<0.5	<1	<1			<1		<10	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	
W-7	µg/L	5/7/2002	<100	<0.5	<1	<1			<1		<10000	<10	<1	<1	<1	<1	<1	<1	<1	<0.5	
W-7	µg/L	9/24/2002	<100	<0.5	<1	<1			<1		<10000	<10	<1	<1	<1	<1	<1	<1	<1	<0.5	
W-7	µg/L	10/7/2005	<100	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1	<0.5		
W-7	µg/L	2/16/2006	60.9	<1	<5	<5	<5	<5	<1	<10	<5	1.1	<5	<5	<5	<5	<5	<5	<5		
W-7	µg/L	8/4/2006	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2	<2	<2	<2	<2	<2		
W-7	µg/L	11/10/2006	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2	<2	<2	<2	<2	<2		
W-7	µg/L	2/9/2007	<50	<2	<2	<2	<2	2.6	<2	<5	<50	<5	2.2	<2	<2	<2	<2	<2	<2		
W-7	µg/L	5/8/2007	31	0.41	0.45	0.87	1.4	0.75	<5	<50	0.9	1.4	0.35	<2	<2	<2	<2	0.41	<2		
W-7	µg/L	8/10/2007	<50	<2	<2	0.25	<2	<2	<5	<50	<5	<2	<2	<2	<2	<2	<2	<2	<2		
W-7	µg/L	11/6/2007	<30	<0.28	&																

Table III
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Former Powerine Refinery
Santa Fe Springs, CA
3Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-7	µg/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<0.50	<1.0	
W-7	µg/L	4/14/2011	<50	0.57	0.55	0.51	<1.0	0.57	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.8	<0.50	<1.0	
W-7	µg/L	8/24/2011	<50	0.52	0.50	0.53	<1.0	0.53	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	<0.50	<1.0	
W-7	µg/L	8/24/2011	<50	<0.50	<0.50	<0.50	<1.0	0.51	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	<0.50	<1.0	
W-7	µg/L	11/10/2011	<50	<0.50	<0.50	0.56	<1.0	0.61	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	<0.50	<1.0	
W-7	µg/L	2/8/2012	<50	<0.50	<0.50	0.57	<1.0	0.59	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<0.50	<1.0	
W-7	µg/L	5/9/2012	57	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<0.50	<1.0	
W-7	µg/L	8/29/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-7	µg/L	11/7/2012	<50	0.53	<0.50	0.64	<1.0	0.57	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-7	µg/L	2/1/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-7	µg/L	4/4/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-7	µg/L	8/23/2013	<50	0.59	0.61	0.67	1.1	0.72	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	<0.50	<1.0	
W-8	µg/L	8/4/2000	<500	2.8	<4.6	<1			<1		<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	
W-8	µg/L	2/6/2001	NS	NS	NS	NS			NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
W-8	µg/L	7/26/2001	180	0.67	<1	<1			<1		<1	<1	<1	<1	<1	<1	<1	<1	<5	<0.5	
W-8	µg/L	5/7/2002	180	0.51	<1	<1			<1	<10000	<10	<1	<1	<1	<1	<1	<1	<1	<5	<0.5	
W-8	µg/L	9/24/2002	<100	0.64	<1	<1			<1	<10000	<10	<1	<1	<1	<1	<1	<1	<1	<5	<0.5	
W-8	µg/L	7/1/2004	390	1.9J	1.8	0.72	0.92	<0.5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
W-8	µg/L	10/6/2005	220	0.52	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	
W-8	µg/L	2/16/2006	192	<1	<5	<5	<5	<5	<1	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
W-8	µg/L	8/4/2006	130	<2	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2	<2	<2	<2	<2	<5	
W-8	µg/L	11/10/2006	210	<2	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2	<2	<2	<2	<2	<5	
W-8	µg/L	2/9/2007	130	<2	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2	<2	<2	<2	<2	<5	
W-8	µg/L	5/8/2007	110	0.49	0.73	0.33	<2	<2	<5	<50	<5	0.23	<2	<2	<2	<2	<2	<2	<2	<5	
W-8	µg/L	8/7/2007	170	0.49	0.82	0.44	<2	0.38	<5	<50	<5	0.3	<2	<2	<2	<2	<2	<2	<2	<5	
W-8	µg/L	11/6/2007	160	0.52	0.75	0.4	<0.6	0.3	<0.32	7.5	<0.41	<0.23	<0.26	<0.32	<0.27	<0.32	<0.27	<0.28	<0.3		
W-8	µg/L	2/4/2008	160	0.46	0.81	0.39	<2	<2	<5	<50	<5	0.25	<2	<2	<2	<2	<2	<2	<2	<5	
W-8	µg/L	1/13/2009	120	<2	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2	<2	<2	<2	<2	<5	
W-8	µg/L	4/21/2009	150	0.45	0.82	0.37	<2	<2	<5	<50	<5	<2	<2	<2	<2	<2	<2	<2	<2	<5	
W-8	µg/L	3/4/2010	220	<0.50	0.85	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-8	µg/L	5/17/2010	200	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-8	µg/L	5/17/2010	210	<0.50	0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-8	µg/L	8/4/2010	110	<0.50	0.80	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-8	µg/L	11/4/2010	140	<0.50	0.60	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-8	µg/L	2/7/2011	130	<0.50	0.85	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-8	µg/L	4/21/2011	130	0.57	1.1	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-8	µg/L	4/21/2011	140																		

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3Q2013

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-9	µg/L	11/7/2006	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<5
W-9	µg/L	2/6/2007	67	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<5
W-9	µg/L	5/9/2007	50	<2	<2	<2	<2	<2	<5	17	<5	<2	<2	<2	<2	2	<2	<2	<2	<2	<5
W-9	µg/L	8/7/2007	38	<2	<2	<2	<2	<2	<5	22	<5	<2	<2	<2	0.31	3	<2	<2	<2	<2	<5
W-9	µg/L	11/6/2007	<30	<0.28	<0.36	<0.25	<0.6	<0.3	<0.32	19	<0.41	<0.23	<0.26	<0.32	0.31	3.8	<0.27	<0.28	<0.3		
W-9	µg/L	2/5/2008	<50	<2	<2	<2	<2	<2	<5	23	0.5	<2	<2	<2	0.3	3.4	<2	<2	<2	<2	<5
W-9	µg/L	1/15/2009	46	<2	<2	<2	<2	<2	<5	18	<5	<2	<2	<2	<2	3.2	<2	<2	<2	<2	<5
W-9	µg/L	4/23/2009	36	<2	<2	<2	<2	<2	<5	18	<5	<2	<2	<2	<2	2.6	<2	<2	<2	<2	<5
W-9	µg/L	3/3/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	1.9	<1.0	<0.50	<1.0		
W-9	µg/L	5/12/2010	80	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	2.8	<1.0	<0.50	<1.0		
W-9	µg/L	8/4/2010	67	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	4.0	<1.0	<0.50	<1.0		
W-9	µg/L	11/3/2010	87	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	3.2	<1.0	<1.0	<0.50	<1.0	
W-9	µg/L	2/2/2011	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	<1.0	
W-9	µg/L	4/14/2011	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	5.9	<1.0	<1.0	<0.50	<1.0	
W-9	µg/L	8/24/2011	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<0.50	<1.0	
W-9	µg/L	11/10/2011	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<0.50	<1.0	
W-9	µg/L	2/8/2012	59	<0.50	<0.50	<0.50		<0.50	<1.0	13	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	<1.0	<1.0	<0.50	<1.0	
W-9	µg/L	5/9/2012	89	<0.50	<0.50	<0.50		<0.50	<1.0	29	<1.0	<1.0	<1.0	<1.0	<1.0	2.3	<1.0	<1.0	<0.50	<1.0	
W-9	µg/L	8/28/2012	70	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-9	µg/L	11/7/2012	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-9	µg/L	1/31/2013	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	
W-9	µg/L	4/5/2013	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<0.50	<1.0	
W-9	µg/L	8/23/2013	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<0.50	<1.0	

NOTES:

TPHg	total petroleum hydrocarbons, gasoline-range carbon chains (C6-C12)
B	benzene
T	toluene
E	ethylbenzene
m/p-X	xylenes, meta and para
o-X	xylene, ortho
MTBE	methyl-tert-butyl ether
TBA	tert-butyl alcohol
NAP	naphthalene
1,2,4-TMB	1,2,4-trimethylbenzene
1,3,5-TMB	1,3,5-trimethylbenzene
PCE	tetrachloroethylene
TCE	trichloroethylene
t1,2-DCE	trans-1,2-dichloroethene
c1,2-DCE	cis-1,2-dichloroethene
1,1-DCE	1,1-dichloroethene
1,1 DCA	1,1-dichloroethane
1,2-DCA	1,2-dichloroethane
VC	vinyl chloride
µg/L	micrograms per liter
blank cell	information not available

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-104A	12/18/2009	7.31	5.31	3
MW-104A	3/3/2010	6.93	1.65	66
MW-104A	5/11/2010	8.06	NM	19
MW-104A	8/4/2010	7.65	2.32	205
MW-104A	11/3/2010	8.06	2.00	131
MW-104A	2/2/2011	8.46	3.05	136.4
MW-104A	4/14/2011	8.10	2.85	128.5
MW-104A	8/24/2011	7.53	4.47	19.6
MW-104A	11/10/2011	7.38	5.47	67
MW-104A	2/9/2012	8.79	2.42	-14.5
MW-104A	5/9/2012	8.18	4.36	-39.3
MW-104A	8/27/2012	7.69	1.96	51.9
MW-104A	11/6/2012	NM	NM	NM
MW-104A	1/28/2013	7.80	2.52	-43.6
MW-104A	4/5/2013	NM	NM	NM
MW-104A	8/23/2013	6.97	0.85	-57.2
MW-106A	12/17/2009	7.25	7.29	-112
MW-106A	3/5/2010	6.73	4.71	116
MW-106A	5/13/2010	8.06	7.90	-38
MW-106A	8/6/2010	8.05	4.52	210
MW-106A	11/4/2010	8.23	3.09	77
MW-106A	2/3/2011	NM	NM	NM
MW-106A	4/19/2011	NM	NM	NM
MW-106A	8/25/2011	7.67	2.98	-28.1
MW-106A	11/14/2011	7.03	4.74	33
MW-106A	2/3/2012	NM	NM	NM
MW-106A	8/24/2012	NM	NM	NM
MW-106A	11/6/2012	NM	NM	NM
MW-106A	1/28/2013	NM	NM	NM
MW-106A	4/4/2013	NM	NM	NM
MW-106A	9/4/2013	6.91	1.35	-61.3
MW-107A	12/17/2009	7.20	6.99	-276
MW-107A	3/5/2010	8.70	1.81	-307
MW-107A	5/13/2010	8.30	NM	-370
MW-107A	8/6/2010	8.10	3.25	-280
MW-107A	11/4/2010	8.16	2.04	-245
MW-107A	2/3/2011	8.49	3.42	-338
MW-107A	4/19/2011	8.02	1.93	-276.8
MW-107A	8/25/2011	7.82	2.68	-216.7

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-107A	11/14/2011	7.19	3.73	-161.3
MW-107A	1/31/2012	8.88	2.6	-240
MW-107A	5/8/2012	8.40	2.34	-273.6
MW-107A	8/24/2012	8.12	2.89	-226.7
MW-107A	11/6/2012	8.27	2.38	-236.7
MW-107A	1/28/2013	7.96	2.25	-257.3
MW-107A	4/4/2013	8.25	2.25	-251.8
MW-107A	9/4/2013	NM	NM	NM
MW-503B	12/15/2009	6.92	7.78	-137
MW-503B	3/8/2010	7.33	3.38	-96
MW-503B	5/17/2010	8.18	1.79	-69
MW-503B	8/9/2010	7.60	2.72	147
MW-503B	11/8/2010	7.62	2.93	7
MW-503B	2/4/2011	7.96	2.16	-46
MW-503B	4/15/2011	7.61	1.74	-46.4
MW-503B	8/29/2011	7.50	2.57	-96.1
MW-503B	11/16/2011	6.76	3.01	-41.3
MW-503B	1/31/2012	8.50	3.06	-150.6
MW-503B	5/8/2012	7.73	2.46	-145.0
MW-503B	8/30/2012	8.05	2.50	-13.0
MW-503B	11/5/2012	8.00	2.06	96.5
MW-503B	1/30/2013	7.67	2.10	31.9
MW-503B	4/8/2013	7.72	2.46	-31.5
MW-503B	9/5/2013	6.88	1.74	-58.0
W-1	12/15/2009	7.62	7.10	-39
W-1	3/5/2010	7.51	3.15	-111
W-1	5/13/2010	8.07	2.02	-197
W-1	8/6/2010	7.52	3.22	-22
W-1	11/5/2010	8.13	2.75	38
W-1	2/4/2011	8.18	4.84	-63.7
W-1	4/14/2011	7.65	1.94	37.3
W-1	8/26/2011	7.47	3.16	-86
W-1	11/14/2011	7.08	2.9	-75.9
W-1	2/6/2012	7.99	2.87	-79.4
W-1	5/7/2012	7.85	3.03	-62.4
W-1	8/27/2012	7.90	2.69	-60.4
W-1	11/5/2012	7.82	2.47	-40.0
W-1	1/30/2013	7.64	3.07	66.5
W-1	4/3/2013	8.06	3.57	-96.5

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-1	8/28/2013	6.93	1.83	-28.7
W-4	12/15/2009	8.27	9.40	21
W-4	3/5/2010	7.09	3.41	-101
W-4	5/13/2010	8.00	3.87	-66
W-4	8/6/2010	7.74	3.48	16
W-4	11/4/2010	7.75	3.50	45
W-4	2/8/2011	7.67	5.53	-3.5
W-4	4/14/2011	7.79	4.47	107.8
W-4	8/25/2011	7.54	4.75	-92.5
W-4	11/14/2011	6.88	4.49	-47.3
W-4	2/6/2012	8.36	3.7	-53.2
W-4	5/7/2012	8.10	3.24	-54
W-4	8/27/2012	8.08	3.84	11.7
W-4	11/5/2012	8.18	3.95	20.2
W-4	1/30/2013	7.66	2.86	111.4
W-4	4/8/2013	7.91	3.97	-45.8
W-4	9/3/2013	6.99	2.28	-71.6
W-8	12/18/2009	10.11	7.07	-230
W-9	3/3/2010	7.53	5.66	69
W-9	5/12/2010	8.07	7.15	-175
W-9	8/4/2010	7.36	3.36	-60
W-9	4/5/2011	7.71	4.07	82.3
W-9	8/24/2011	7.62	4.9	-4.9
W-9	11/10/2011	NM	NM	NM
W-9	2/8/2012	8.32	3.95	61.8
W-9	5/9/2012	7.77	3.69	-49.5
W-9	8/28/2012	7.70	2.61	36.6
W-9	11/7/2012	NM	NM	NM
W-9	1/31/2013	7.49	2.37	13.1
W-9	4/5/2013	7.72	2.81	-93.6
W-9	8/23/2013	6.78	0.81	-56.4
W-10	12/18/2009	7.21	6.89	-97
W-10	3/8/2010	NM	NM	NM
W-10	5/17/2010	NM	NM	NM
W-10	8/9/2010	NM	NM	NM
W-10	11/3/2010	7.53	3.39	-10
W-10	11/8/2010	NM	NM	NM
W-10	2/2/2011	7.83	3.57	41.6
W-10	2/8/2011	7.28	5.51	-103

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
3Q2013

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-10	4/15/2011	NM	NM	NM
W-10	8/29/2011	7.14	2.7	-130.2
W-10	11/10/2011	NM	NM	NM
W-10	2/8/2012	NM	NM	NM
W-10	5/10/2012	NM	NM	NM
W-10	8/28/2012	NM	NM	NM
W-10	11/7/2012	NM	NM	NM
W-10	1/28/2013	NM	NM	NM
W-10	4/1/2013	NM	NM	NM
W-10	9/5/2013	6.76	2.18	-81.7
W-11	12/8/2010	NM	NM	NM
W-11	2/4/2011	7.67	5.62	-119
W-11	4/15/2011	7.58	1.68	-77
W-11	8/29/2011	7.35	2.2	-125.7
W-11	11/14/2011	6.93	2.63	-148.6
W-11	2/8/2012	8.38	3.3	45.6
W-11	5/10/2012	7.84	2.75	-76.5
W-11	8/28/2012	7.50	1.56	-122.5
W-11	11/8/2012	7.92	1.75	24.7
W-11	1/31/2013	7.64	2.62	-120.3
W-11	4/5/2013	7.81	2.36	-69.2
W-12	12/18/2009	6.99	6.96	0
W-12	3/4/2010	7.53	3.15	-63
W-12	5/12/2010	7.87	NM	-180
W-12	8/5/2010	7.61	2.65	-100
W-12	11/4/2010	7.88	2.64	7
W-12	2/3/2011	8.28	2.85	-99
W-12	4/19/2011	7.77	2.10	15.2
W-12	8/25/2011	7.50	2.78	-58.5
W-12	11/14/2011	6.93	3.77	-34.7
W-12	2/8/2012	8.13	2.57	-113
W-12	5/9/2012	7.89	3.22	-74.5
W-12	8/30/2012	7.63	2.15	-98.7
W-12	11/8/2012	7.88	2.31	-42.6
W-12	1/31/2013	7.76	2.18	-70.3
W-12	4/2/2013	7.83	1.74	-98.7
W-12	8/30/2013	6.91	2.28	-45.0
W-14A	12/15/2009	7.65	7.76	-23.0
W-14A	3/1/2010	6.61	4.09	58.0

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-14A	5/10/2010	8.63	2.74	2.0
W-14A	8/2/2010	8.02	3.12	145.0
W-14A	11/1/2010	8.30	2.87	46.0
W-14A	1/31/2011	8.30	13.16	185.4
W-14A	4/4/2011	8.29	4.81	89.6
W-14A	8/22/2011	7.87	10.15	22.8
W-14A	11/7/2011	7.40	5.23	151.6
W-14A	1/30/2012	8.06	1.48	2.6
W-14A	8/20/2012	8.10	3.44	-76.9
W-14A	10/29/2012	8.23	3.01	22.5
W-14A	1/22/2013	8.18	5.24	226.9
W-14A	4/1/2013	8.35	2.98	-168.2
W-14A	8/29/2013	6.72	1.61	-52.7
W-14B	12/15/2009	8.37	7.79	97
W-14B	3/1/2010	7.72	2.60	-5
W-14B	5/10/2010	8.43	3.00	-172
W-14B	8/2/2010	7.80	4.60	33
W-14B	11/1/2010	8.13	3.37	37
W-14B	1/31/2011	8.17	19.82	194
W-14B	4/4/2011	8.27	5.95	82.6
W-14B	8/22/2011	7.95	7.90	22.7
W-14B	11/7/2011	7.22	4.92	67.8
W-14B	1/30/2012	8.70	2.90	-133.7
W-14B	8/20/2012	8.27	4.00	-30.3
W-14B	10/29/2012	8.21	3.49	-18.2
W-14B	1/22/2013	7.96	4.24	130.4
W-14B	4/1/2013	8.28	2.90	-203.6
W-14B	8/26/2013	7.12	2.21	-73.8
W-14C	12/15/2009	8.24	8.57	77.0
W-14C	3/1/2010	7.22	2.43	188.0
W-14C	5/10/2010	8.17	0.80	-77.0
W-14C	8/2/2010	7.60	3.55	128.0
W-14C	11/1/2010	7.89	3.15	49.0
W-14C	1/31/2011	7.88	10.85	188.0
W-14C	4/4/2011	7.98	3.27	51.3
W-14C	8/22/2011	7.76	4.24	-3.7
W-14C	11/7/2011	7.33	7.47	59.2
W-14C	1/30/2012	8.75	3.65	-65.2
W-14C	5/1/2012	8.18	4.07	41.5

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Summary of Field Test Parameters
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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-14C	8/20/2012	8.18	4.95	5.1
W-14C	10/29/2012	8.16	3.77	-20.0
W-14C	1/22/2013	7.88	3.37	127.5
W-14C	4/1/2013	8.22	2.63	-181.5
W-14C	8/26/2013	7.04	2.31	-85.9
W-15A	12/14/2009	7.31	9.15	85.0
W-15A	3/2/2010	7.12	2.67	202.0
W-15A	5/10/2010	7.90	NM	-228.0
W-15A	8/2/2010	7.39	1.96	-145.0
W-15A	11/1/2010	7.67	2.85	32.0
W-15A	2/1/2011	7.89	2.05	-33.0
W-15A	4/5/2011	8.00	2.60	-81.7
W-15A	8/23/2011	7.47	4.96	-148.7
W-15A	11/8/2011	(FPPH)	(FPPH)	(FPPH)
W-15A	2/2/2012	(FPPH)	(FPPH)	(FPPH)
W-15A	5/2/2012	8.06	3.26	-26.4
W-15A	8/21/2012	(FPPH)	(FPPH)	(FPPH)
W-15A	10/30/2012	(FPPH)	(FPPH)	(FPPH)
W-15A	1/23/2013	(FPPH)	(FPPH)	(FPPH)
W-15A	4/2/2013	(FPPH)	(FPPH)	(FPPH)
W-15B	12/14/2009	7.39	7.44	-58.0
W-15B	3/2/2010	7.61	2.39	94.0
W-15B	5/11/2010	8.09	4.36	-15.0
W-15B	8/3/2010	7.74	3.42	107.0
W-15B	11/2/2010	8.06	3.18	40.0
W-15B	2/1/2011	8.15	4.58	286.0
W-15B	4/5/2011	8.10	2.92	62.4
W-15B	8/23/2011	7.56	3.85	-2.1
W-15B	11/10/2011	7.10	3.07	28.3
W-15B	2/2/2012	8.17	2.31	-69.2
W-15B	5/2/2012	8.00	3.41	-11.0
W-15B	8/20/2012	8.10	5.08	64.6
W-15B	10/30/2012	8.21	2.80	123.6
W-15B	1/23/2013	7.75	2.74	135.0
W-15B	4/2/2013	8.16	1.88	-109.8
W-15B	9/4/2013	6.97	1.78	-103.7
W-15C	12/14/2009	7.16	7.18	-53.0
W-15C	3/2/2010	7.33	2.27	148.0
W-15C	5/11/2010	8.16	4.73	-21.0

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-15C	8/3/2010	7.60	2.72	108.0
W-15C	11/2/2010	7.55	2.40	62.0
W-15C	2/1/2011	7.81	4.58	123.7
W-15C	4/5/2011	7.92	2.85	109.0
W-15C	8/23/2011	7.54	4.32	-2.4
W-15C	11/8/2011	7.32	6.00	119.4
W-15C	1/31/2012	8.72	3.11	-60.3
W-15C	5/2/2012	8.00	3.50	6.0
W-15C	8/21/2012	8.12	2.90	125.7
W-15C	10/30/2012	8.13	2.55	99.3
W-15C	1/23/2013	7.82	3.12	135.8
W-15C	4/2/2013	7.93	2.16	-107.1
W-15C	9/4/2013	7.09	3.75	-66.1
W-16A	12/16/2009	7.62	6.90	-62.0
W-16A	3/5/2010	7.03	3.47	-5.0
W-16A	5/14/2010	8.28	2.23	-54.0
W-16A	8/9/2010	7.98	2.65	106.0
W-16A	11/5/2010	8.03	6.15	48.0
W-16A	2/7/2011	7.82	4.09	249.0
W-16A	4/18/2011	7.88	4.00	94.9
W-16A	8/26/2011	7.73	4.11	-73.4
W-16A	11/8/2011	7.07	4.36	77.6
W-16A	2/3/2012	8.49	3.67	-70.0
W-16A	5/3/2012	7.86	4.09	50.0
W-16A	8/22/2012	7.77	2.47	-77.5
W-16A	10/31/2012	8.15	4.03	113.1
W-16A	1/24/2013	7.77	3.30	64.6
W-16A	4/3/2013	7.80	2.83	-59.6
W-16A	9/3/2013	6.94	3.24	-18.8
W-16B	12/16/2009	8.23	7.61	-184
W-16B	3/8/2010	8.15	3.20	-236
W-16B	5/14/2010	8.62	0.77	-310
W-16B	8/9/2010	8.01	2.88	-217
W-16B	11/5/2010	8.30	2.68	-119
W-16B	2/7/2011	8.12	3.54	-297
W-16B	4/18/2011	8.47	2.56	-247
W-16B	8/26/2011	8.01	2.72	-217.4
W-16B	11/8/2011	6.89	8.68	-63.8
W-16B	2/3/2012	9.21	2.55	-206.7

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
3Q2013

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-16B	5/3/2012	8.74	3.06	-194.3
W-16B	8/22/2012	8.62	2.90	-200.0
W-16B	10/31/2012	8.62	3.88	-189.5
W-16B	1/24/2013	7.96	2.53	-184.5
W-16B	4/3/2013	8.45	2.10	-198.3
W-16B	8/28/2013	7.25	1.57	-214.4
W-16C	12/16/2009	8.15	7.12	-206
W-16C	3/8/2010	8.33	3.64	-237
W-16C	5/14/2010	8.68	NM	-295
W-16C	8/9/2010	8.02	2.57	-165
W-16C	11/5/2010	8.24	2.37	-72
W-16C	2/7/2011	8.03	4.34	-285
W-16C	4/18/2011	8.55	2.88	-249.5
W-16C	8/26/2011	7.81	2.71	-223.2
W-16C	11/9/2011	7.57	6.94	-185
W-16C	2/3/2012	8.84	2.51	-253.2
W-16C	5/3/2012	8.52	3.00	-205.8
W-16C	8/22/2012	8.30	2.60	-138.7
W-16C	10/31/2012	8.25	2.93	-185.2
W-16C	1/24/2013	8.05	3.20	-160.6
W-16C	4/3/2013	8.03	2.42	-169.2
W-16C	8/28/2013	7.50	1.02	-329.7
W-17A	12/18/2009	8.02	7.10	30
W-17A	3/3/2010	6.67	5.41	74
W-17A	5/12/2010	8.25	0.88	-40
W-17A	8/4/2010	7.78	2.35	62
W-17A	11/3/2010	8.17	2.95	76
W-17A	2/2/2011	8.36	5.96	349
W-17A	4/20/2011	7.85	3.51	-5.8
W-17A	8/24/2011	7.85	3.23	2.6
W-17A	11/9/2011	7.19	4.78	-13
W-17A	2/7/2012	8.46	2.87	-20
W-17A	5/4/2012	8.20	3.45	-43.8
W-17A	8/23/2012	8.12	2.36	20.5
W-17A	11/1/2012	8.28	3.09	78.2
W-17A	1/25/2013	8.06	2.41	97.9
W-17A	4/9/2013	7.94	2.67	-27.8
W-17A	8/26/2013	6.83	1.67	-75.6
W-17B	12/18/2009	8.49	7.18	-173

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
3Q2013

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-17B	3/3/2010	7.87	4.80	-197
W-17B	5/12/2010	8.35	NM	-313
W-17B	8/5/2010	7.96	2.31	-189
W-17B	11/3/2010	8.09	2.56	-25
W-17B	2/2/2011	8.43	3.45	-269
W-17B	4/20/2011	8.11	3.32	-168.5
W-17B	8/24/2011	7.88	3.41	-153.7
W-17B	11/9/2011	7.52	2.94	-136.4
W-17B	2/7/2012	8.65	2.50	-174.3
W-17B	5/4/2012	8.40	2.87	-118.7
W-17B	8/23/2012	8.25	2.13	-156.5
W-17B	11/1/2012	8.45	2.35	-97.2
W-17B	1/25/2013	8.14	2.81	-35.2
W-17B	4/9/2013	8.12	2.69	-155.6
W-17B	8/27/2013	7.16	1.75	-98.8
W-17C	12/18/2009	8.79	8.74	-177
W-17C	3/4/2010	7.96	5.90	-209
W-17C	5/12/2010	8.49	3.03	-322
W-17C	8/5/2010	8.01	2.64	-167
W-17C	11/3/2010	8.16	2.79	-120
W-17C	2/2/2011	8.47	3.96	-301
W-17C	4/20/2011	8.26	2.08	-223.7
W-17C	8/24/2011	7.94	3.12	-201.7
W-17C	11/9/2011	7.43	3.36	-159.7
W-17C	2/7/2012	8.80	2.73	-226.4
W-17C	5/4/2012	8.50	2.56	-168.5
W-17C	8/23/2012	8.39	2.39	-177.5
W-17C	11/1/2012	8.48	2.87	-151.4
W-17C	1/25/2013	8.20	3.62	-166.8
W-17C	4/9/2013	8.25	2.36	-157.4
W-17C	8/27/2013	7.46	0.89	-296.2
EW-1	2/3/2011	7.90	6.61	-258
EW-1	4/13/2011	8.15	2.86	-210
EW-1	8/29/2011	7.62	2.74	-293
EW-1	11/16/2011	(FPPH)	(FPPH)	(FPPH)
EW-1	2/6/2012	(FPPH)	(FPPH)	(FPPH)
EW-1	5/7/2012	(FPPH)	(FPPH)	(FPPH)
EW-1	8/24/2012	(FPPH)	(FPPH)	(FPPH)
EW-1	11/13/2012	(FPPH)	(FPPH)	(FPPH)

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
3Q2013

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
EW-1	1/29/2013	(FPPH)	(FPPH)	(FPPH)
EW-1	4/10/2013	(FPPH)	(FPPH)	(FPPH)
MW-701	2/4/2011	6.09	NM	NM
MW-701	4/11/2011	7.60	3.67	180.6
MW-701	8/30/2011	7.50	3.98	-31.2
MW-701	11/16/2011	6.90	2.93	25.9
MW-701	2/1/2012	8.18	4.3	-58.5
MW-701	5/11/2012	7.89	3.45	-8.8
MW-701	8/31/2012	7.97	4.00	28.7
MW-701	11/13/2012	7.88	3.00	161.0
MW-701	2/4/2013	7.84	4.20	120.5
MW-701	4/10/2013	7.84	3.55	36.6
MW-701	8/27/2013	7.01	1.95	-41.2
MW-702	2/4/2011	6.04	NM	NM
MW-702	4/12/2011	7.70	3.29	103.1
MW-702	8/30/2011	7.34	3.23	-155.3
MW-702	11/16/2011	7.07	2.67	-172.7
MW-702	2/9/2012	7.89	4.73	-60.7
MW-702	5/11/2012	7.77	3.14	-99.9
MW-702	8/31/2012	7.76	3.48	-92.8
MW-702	11/13/2012	7.74	2.77	-116.3
MW-702	2/4/2013	7.60	3.34	-28.4
MW-702	4/10/2013	7.55	3.26	-26.9
MW-702	9/6/2013	6.82	1.87	-71.3
MW-703	2/4/2011	6.25	NM	NM
MW-703	4/12/2011	7.57	3.53	132.4
MW-703	8/30/2011	7.30	4.2	-87.1
MW-703	11/17/2011	6.92	2.77	-98
MW-703	2/14/2012	8.11	4.07	-26.3
MW-703	5/11/2012	7.85	3.13	-72.6
MW-703	8/31/2012	7.68	3.20	-21.3
MW-703	11/14/2012	NM	NM	NM
MW-703	2/4/2013	7.75	3.50	122.6
MW-703	4/10/2013	7.87	3.75	-54.2
MW-703	8/27/2013	6.98	1.92	-48.1
MW-704	2/9/2011	6.08	NM	NM
MW-704	4/13/2011	7.46	4.60	134.6
MW-704	8/31/2011	7.40	4.02	99.4
MW-704	11/17/2011	6.93	2.51	-148.8

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
3Q2013

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-704	2/14/2012	7.80	4.2	-31.6
MW-704	5/14/2012	7.60	5.25	-30.0
MW-704	9/4/2012	7.87	2.85	31.7
MW-704	11/14/2012	NM	NM	NM
MW-704	2/5/2013	7.57	4.83	71.3
MW-704	4/15/2013	7.72	3.28	25.6
MW-704	9/6/2013	6.66	1.56	-77.0
MW-705	2/4/2011	6.01	NM	NM
MW-705	4/12/2011	7.79	3.40	127.6
MW-705	8/31/2011	7.78	3.7	-55.5
MW-705	11/17/2011	7.04	3.16	-130.7
MW-705	2/14/2012	8.12	4.09	-57.6
MW-705	5/14/2012	7.88	2.50	-65.0
MW-705	9/4/2012	7.80	3.47	-28.4
MW-705	11/14/2012	NM	NM	NM
MW-705	2/5/2013	7.77	3.82	-46.8
MW-705	4/10/2013	7.73	2.78	21.8
MW-705	8/29/2013	6.92	2.21	-49.5
MW-706	2/4/2011	6.21	NM	NM
MW-706	4/11/2011	7.99	4.02	158.7
MW-706	8/31/2011	7.76	3.03	-41.2
MW-706	11/18/2011	6.93	3.06	180.8
MW-706	2/14/2012	8.16	3.00	-52.7
MW-706	5/14/2012	7.87	2.77	-63.5
MW-706	9/4/2012	7.84	3.24	18.2
MW-706	11/15/2012	8.04	3.31	-26.4
MW-706	2/5/2013	7.87	3.96	96.5
MW-706	4/15/2013	8.23	2.36	18.8
MW-706	8/30/2013	6.89	1.97	-63.4
MW-707	2/4/2011	6.22	NM	NM
MW-707	4/8/2011	7.89	3.24	51.9
MW-707	9/1/2011	7.30	3.73	-9.4
MW-707	11/18/2011	6.89	2.8	11.3
MW-707	2/1/2012	8.19	3.1	-147
MW-707	5/15/2012	7.75	2.50	-72.6
MW-707	9/4/2012	7.55	3.26	-44.5
MW-707	11/15/2012	7.64	2.13	-88.8
MW-707	2/5/2013	7.62	3.58	13.1
MW-707	4/8/2013	7.67	3.23	-25.7

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
3Q2013

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-707	8/30/2013	6.95	1.78	-92.1
MW-708	2/4/2011	5.99	NM	NM
MW-708	4/6/2011	7.84	3.03	-119.8
MW-708	9/1/2011	7.51	3.45	-147.2
MW-708	11/18/2011	7.00	3.56	-161.3
MW-708	2/10/2012	8.09	2.75	-140.2
MW-708	5/15/2012	7.79	2.36	-136.1
MW-708	9/5/2012	7.78	2.39	-113.1
MW-708	11/16/2012	7.90	2.50	-133.6
MW-708	2/11/2013	7.62	3.47	-110.6
MW-708	4/11/2013	7.56	3.72	-28.5
MW-709	2/4/2011	6.27	NM	NM
MW-709	4/6/2011	8.08	3.74	149.6
MW-709	9/1/2011	7.38	2.97	-37
MW-709	11/21/2011	6.76	2.97	148.5
MW-709	2/10/2012	8.08	2.61	-57.1
MW-709	5/16/2012	7.70	3.12	9.3
MW-709	9/5/2012	7.82	2.07	-113.1
MW-709	11/16/2012	8.00	2.13	-78.2
MW-709	2/11/2013	7.61	3.00	59.4
MW-709	4/11/2013	7.76	2.62	88.1
MW-709	9/5/2013	6.82	1.80	-79.1
MW-710	2/8/2011	6.18	NM	NM
MW-710	4/7/2011	7.88	3.54	97.7
MW-710	9/2/2011	6.87	3.68	-10.2
MW-710	11/21/2011	6.81	2.86	255.6
MW-710	2/1/2012	8.47	3.45	-64.8
MW-710	5/16/2012	7.80	4.04	21.5
MW-710	9/5/2012	7.85	2.32	30.5
MW-710	11/16/2012	7.97	3.57	43.4
MW-710	2/11/2013	7.63	3.13	94.0
MW-710	4/12/2013	7.77	2.66	62.3
MW-710	8/29/2013	6.99	2.57	60.2
MW-711	2/8/2011	5.99	NM	NM
MW-711	4/6/2011	7.91	3.39	-59.2
MW-711	9/2/2011	7.06	3.54	-99.8
MW-711	11/21/2011	6.87	2.95	-133.6
MW-711	2/10/2012	8.04	3.45	-96.7
MW-711	5/16/2012	7.73	2.37	-73.0

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
3Q2013

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-711	9/5/2012	7.76	2.04	-175.4
MW-711	11/16/2012	7.77	2.66	-59.8
MW-711	2/11/2013	7.58	3.88	-66.4
MW-711	4/12/2013	7.67	2.32	-54.3
MW-712	2/7/2011	6.03	NM	NM
MW-712	4/7/2011	7.74	3.08	21.7
MW-712	9/2/2011	7.10	2.68	-59.7
MW-712	11/21/2011	6.90	2.65	-90.4
MW-712	2/13/2012	7.90	3.88	-83.5
MW-712	5/17/2012	7.71	2.80	-13.3
MW-712	9/6/2012	7.68	1.87	-42.0
MW-712	11/19/2012	7.83	2.26	-50.0
MW-712	2/12/2013	7.52	4.23	-5.3
MW-712	4/12/2013	7.59	2.21	-17.9
MW-712	9/6/2013	6.71	1.31	-77.3
MW-713	2/7/2011	6.13	NM	NM
MW-713	4/8/2011	7.95	3.84	99.5
MW-713	9/2/2011	7.20	3.13	-51.4
MW-713	11/22/2011	6.98	3.07	-28.7
MW-713	2/13/2012	7.97	3.65	-77.7
MW-713	5/17/2012	7.70	3.11	-13.1
MW-713	9/6/2012	7.62	2.16	-120.7
MW-713	11/19/2012	7.79	2.72	-139.5
MW-713	2/12/2013	7.52	3.73	-101.8
MW-713	4/11/2013	7.66	2.95	-122.9
MW-713	9/6/2013	6.98	1.49	-80.2
MW-714	2/8/2011	6.20	NM	NM
MW-714	4/7/2011	7.92	3.53	33.6
MW-714	9/2/2011	7.21	3.15	-63.4
MW-714	11/22/2011	6.96	2.77	-24.2
MW-714	2/13/2012	8.05	4.32	-70.5
MW-714	5/17/2012	4.60	3.00	-10.7
MW-714	9/6/2012	7.66	2.58	-50.0
MW-714	11/19/2012	7.81	3.04	-98.7
MW-714	2/12/2013	7.58	4.77	-24.7
MW-714	4/11/2013	7.75	3.05	-54.3
MW-714	8/29/2013	6.97	1.66	-74.4
MW-715	2/14/2011	7.50	NM	NM
MW-715	4/8/2011	7.78	2.59	16.3

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
3Q2013

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-715	9/2/2011	7.15	3.2	-89.8
MW-715	11/22/2011	6.90	2.73	-125.4
MW-715	2/1/2012	8.32	2.87	-174.2
MW-715	5/17/2012	4.20	2.58	-50.5
MW-715	9/6/2012	7.66	1.97	-98.9
MW-715	11/19/2012	7.85	3.62	-134.5
MW-715	2/12/2013	7.65	3.75	-135.3
MW-715	4/12/2013	7.81	2.58	-124.9
MW-715	8/28/2013	6.88	2.25	-53.9

NOTES:

DO dissolved oxygen
 mg/L milligram(s) per liter
 mV millivolts
 ORP oxidation-reduction potential
 SU standard units
 NM Not Measured

Table V
Summary of Biological Attenuation Parameters
Former Powerine Refinery
Santa Fe Springs, California
3Q2013

Well ID	Sample Date	Alkalinity (mg/L)	Nitrate - NO ₃ ⁻ (mg/L)	Ferrous Iron - Fe ²⁺ (mg/L)	Sulfate - SO ₄ ²⁻ (mg/L)	Methane (µg/L)
W-14A	4/1/2013	460	2.99	<0.1	183	<1.0
W-14A	8/29/2013	640	1.17	7.84	128	165
W-15A	4/2/2013	790	<0.5	0.383	1.23	1.99
W-15A	3Q 2013*	NS	NS	NS	NS	NS
MW-702	4/10/2013	840	<0.5	<0.1	101	757
MW-702	9/6/2013	800	<0.5	3.16	27.0	558
MW-703	4/10/2013	560	<0.5	<0.1	383	1.17
MW-703	8/27/2013	690	<0.5	1.18	253	62.3
MW-704	4/15/2013	820	<0.5	0.201	16.4	1,970
MW-704	9/6/2013	790	<0.5	8.15	<10	1,150
MW-705	4/10/2013	640	<0.5	<0.1	95.6	99.3
MW-705	8/29/2013	640	<0.5	2.08	181	127
MW-706	4/15/2013	570	<0.5	<0.1	77.9	461
MW-706	8/30/2013	600	<0.5	1.24	82.6	<1.0
MW-708	4/11/2013	860	<0.5	1.23	48.4	4,110
MW-708	3Q 2013*	NS	NS	NS	NS	NS
MW-711	4/12/2013	840	<0.5	0.734	0.932	3,590
MW-711	3Q 2013*	NS	NS	NS	NS	NS
MW-713	4/11/2013	840	<0.5	0.586	19.7	4,220
MW-713	9/6/2013	620	<0.5	1.60	82.2	151
MW-715	4/12/2013	540	<0.5	<0.1	138	48.9
MW-715	8/28/2013	400	<0.5	2.50	231	24.8

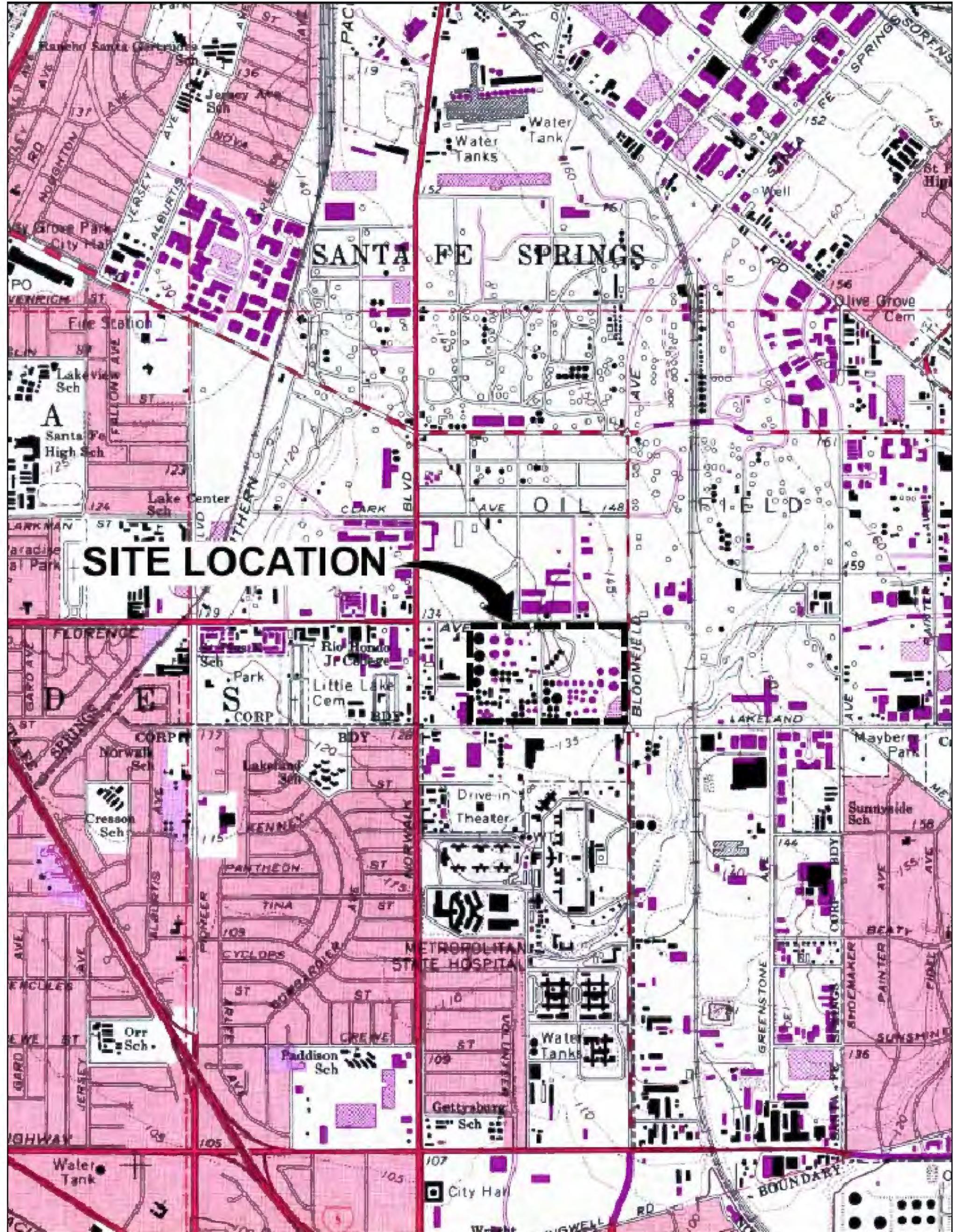
NOTES:

mg/L milligrams per liter

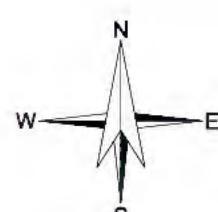
µg/L micrograms per liter

* not sampled due to presence of free-phase petroleum hydrocarbons (FPPH)

NS not sampled



SOURCE OF BASE MAP
U.S. GEOLOGICAL SURVEY, 7.5 MIN QUAD., WHITTIER, CA. 1965, PHOTOREVISED 1981



FORMER POWERINE REFINERY
12345 LAKELAND ROAD
SANTA FE SPRINGS, CALIFORNIA

SITE LOCATION MAP

SCALE: NOT TO SCALE

DRAWN BY: BLM REVISION DATE: 5/15/12 REVISED BY: BCB

**FIGURE
1**

FX-9 Wells

Appendix A

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE:	3Q2013

WELL NO. **EW-1** Walker
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION

WELL DIAMETER	4"	(inches)
DEPTH OF WELL	113	(ft.)
DEPTH TO WATER / FPPH	107.55 / 105.93 (1.62)	(ft.)

WELL NOTES: FPPH + strong vapors
WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:
Bladder Pump, YSI SS6, Interface Probe

PURGE DATA

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv- ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	
		ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h (\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE: 08/28/13	3Q2013

WELL NO. W-1 Walker
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	129.61	(ft.)
DEPTH TO WATER	110.29	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:
Bladder Pump, YSI 556, Interface Probe

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv- ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	
		ice	8015M - TPH-g	VOAs	3	HCL	

LL-W1-082813C 0855

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h(\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE: 09/03/13	3Q2013

WELL NO. W-4 Walker
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	129 21	(ft.)
DEPTH TO WATER	11 50	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-w4-490313-01@ 1420
		ice	8015M - TPH-g	VOAs	3	HCL	LL-w4-490313-02@ 1430

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = \pi r^2 h (\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE: 08/23/13	3Q2013

WELL NO. W-7 Lakeland
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	18"	(inches)
DEPTH OF WELL	NM	(ft.)
DEPTH TO WATER	99.28	(ft.)

WELL NOTES: No-purge well
WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:
Bladder Pump, YSI 556, Interface Probe

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv- ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-w7-082313 0815 BAILED
		ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h (\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 05/25/13 3Q2013

WELL NO. **W-8** **Lakeland**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION

WELL DIAMETER	18"	(inches)
DEPTH OF WELL	NM	(ft.)
DEPTH TO WATER	85.65	(ft.)

WELL NOTES: No-purge well

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Bladder Pump, YSI 556, Interface Probe

PURGE DATA

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	82608 - VOCs + Oxys	VOAs	3	HCL	
		ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

Casing Volume = $\pi r^2 h$ (ft) x 7.48 gal/ft.

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 08/23/13 3Q2013

WELL NO. W-9 Lakeland
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	2"	(inches)
DEPTH OF WELL	110.37	(ft.)
DEPTH TO WATER	92.31	(ft.)

WEATHER CONDITIONS

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W9-082313 C 1055
		ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h (\text{ft}) \times 7.48 \text{ gal/ft.}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE: 09/05/13	3Q2013

WELL NO **W-10** **Lakeland**
SAMPLED BY A.Wightman / J.Scott

WELL NOTES: Sow recharge purge 1 day prior to sample collection

WEATHER CONDITIONS.

WELL INFORMATION		
WELL DIAMETER	2'	(inches)
DEPTH OF WELL	110.21	(ft.)
DEPTH TO WATER	100.18	(ft.)

PURGING AND SAMPLING EQUIPMENT

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
	ice	8260B - VOCs + Oxy5	VOAS	3	HCL		L-L W10 - CH. X '13 C = 855
	ice	8015M - TPH-g	VOAS	3	HCL		

ADDITIONAL INFORMATION:

Casing Volume = $\pi h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal /Foot

2" well = 0.163 Gal /Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE:	09/03/13 3Q2013

WELL NO. **W-11** **Lakeland**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION

WELL DIAMETER	2"	(inches)
DEPTH OF WELL	112.61	(ft.)
DEPTH TO WATER	101.31	(ft.)

WELL NOTES: Historically contained FPPH

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Bladder Pump, YSI 556, Interface Probe

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAS	3	HCL	WELL CASING BLOCKED WITH "SLUDGE" ~ 10 FT BGS NO SAMPLE
		ice	8015M - TPH-g	VOAS	3	HCL	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h (\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE:	08/30/13 3Q2013

WELL NO. **W-12** **Lakeland**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION

WELL DIAMETER	2"	(inches)
DEPTH OF WELL	116.1	(ft.)
DEPTH TO WATER	105.71	(ft.)

WELL NOTES: May Be Dry

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv- ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W12-083013-01 @ 0850
		ice	8015M - TPH-g	VOAs	3	HCL	LL-W12-083013-02 @ 0855

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h (\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 8/25/13 **3Q2013**

WELL NO. **MW-14A** **Hospital**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	2"	(inches)
DEPTH OF WELL	112	(ft.)
DEPTH TO WATER	97.82	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL.W14A - 5/29/13 C 0945
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	8015 - Methane	VOAs	3	NONE	
		ice	Total Alkalinity	250 ml poly	1	NONE	
		ice	300 IC: nitrate, sulfate	250 ml poly	1	NONE	
		ice	Ferrous Iron	250 ml poly	1	HNO ₃	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h (\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE:	08/26/13 3Q2013

WELL NO. **MW-14B** **Hospital**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	2"	(inches)
DEPTH OF WELL	167	(ft.)
DEPTH TO WATER	97.46	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv- ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL - W14B - 082613 C 0940
		ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h (\text{ft}) \times 7.48 \text{ gal/ft.}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE: 08/24/13	3Q2013

WELL NO. **MW-14C** **Hospital**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	2"	(inches)
DEPTH OF WELL	195	(ft.)
DEPTH TO WATER	97.70	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
	Time	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W14C-082613 C 1105
		ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h (\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE:	3Q2013

WELL NO. **MW-15A** **Hospital**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	2"	(inches)
DEPTH OF WELL	125.7	(ft.)
DEPTH TO WATER / FPPH	115.32 / 114.10 (1.22)	(ft.)

Well Notes: **Contains feet of FPPH**

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Bladder Pump, YSI 556, Interface Probe

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv- ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	FPPH - NO SAMPLE
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	8015 - Methane	VOAs	3	NONE	
		ice	Total Alkalinity	250 ml poly	1	NONE	
		ice	300 IC: nitrate, sulfate	250 ml poly	1	NONE	
		ice	Ferrous Iron	250 ml poly	1	HNO ₃	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h (\text{ft}) \times 7.48 \text{ gal/ft.}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE: 29/04/13	3Q2013

WELL NO. **MW-15B** **Hospital**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	2"	(inches)
DEPTH OF WELL	155.6	(ft.)
DEPTH TO WATER	114.22	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	L WJISB C90413 C 1055
		ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = \pi \cdot r^2 \cdot h(\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE: 09/09/13	3Q2013

WELL NO. **MW-15C** **Hospital**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	2"	(inches)
DEPTH OF WELL	197.34	(ft.)
DEPTH TO WATER	115.06	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
	Time	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-WISC-C90413C 0930 DO: EXCESSIVE AIR BUBBLES IN DISCHARGE
		ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE: 09/03/13	3Q2013

WELL NO. MW-16A **Walker**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	2"	(inches)
DEPTH OF WELL	123.12	(ft.)
DEPTH TO WATER	113.23	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	TROUBLE w/ PUMP (POSSIBLY CHECK VALUE)
		ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h (\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE: 08/28/13	3Q2013

WELL NO. MW-16B **Walker**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	2"	(inches)
DEPTH OF WELL	160.25	(ft.)
DEPTH TO WATER	126.24	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
	ice		8260B - VOCs + Oxys	VOAs	3	HCL	LL-W16B-06.615C 1330
	ice		8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

Casing Volume = $r^2 h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 08/28/13 3Q2013

WELL NO. MW-16C **Walker**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	2"	(inches)
DEPTH OF WELL	196.3	(ft.)
DEPTH TO WATER	124.13	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	
		ice	8015M - TPH-g	VOAs	3	HCL	

LL-W16C - 61.613C 1455

ADDITIONAL INFORMATION:

Casing Volume = $r^2 h$ (ft) x 7.48 gal/ft.

4" well = 0.66 Gal /Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE: 08/26/13	3Q2013

WELL NO. **W-17A** **Lakeland**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	2"	(inches)
DEPTH OF WELL	108.3	(ft.)
DEPTH TO WATER	99.25	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W17A-082613 C 1415
		ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h (\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 11/17/12 3Q2013

WELL NO. W-17B Lakeland
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	2"	(inches)
DEPTH OF WELL	169.6	(ft.)
DEPTH TO WATER	115.46	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	
		ice	8015M - TPH-g	VOAs	3	HCL	

LL - W17S. U42713 C 2910

ADDITIONAL INFORMATION:

Casing Volume = $\pi \cdot r^2 \cdot h$ (ft) $\times 7.48$ gal/ft.

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE: 08/21/13	3Q2013

WELL NO. W-17C **LAKELAND**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	2'	(inches)
DEPTH OF WELL	200	(ft.)
DEPTH TO WATER	115.58	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-WJTC-LB: +13 C 1010
		ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

Casing Volume = $\pi r^2 h$ (ft) x 7.48 gal/ft.

4" well = 0.66 Gal./Foot

$\frac{2}{3}'' \text{ well} = 0.163 \text{ Gal./Foot}$

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE:	05/23/13 3Q2013

WELL NO. **MW-104A** **Lakeland**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	100.08	(ft.)
DEPTH TO WATER	93.17	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv- ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL - MW104A - 082313 @ 1300
		ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h (\text{ft}) \times 7.48 \text{ gal/ft.}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 09/04/13 3Q2013

WELL NO. MW-106A **Bloomfield**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	110	(ft.)
DEPTH TO WATER	104.95	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT.

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-MW106A - 190413 ② 1350
		ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h (\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4' well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE: 04/01/13	3Q2013

WELL NO. MW-107A **Bloomfield**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	109.49	(ft.)
DEPTH TO WATER	104.50	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-MW107A - 090913 C1510 BAILED
		ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h (\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

1./Foot 2" well = 0.163 Gal./Foot
ATTEMPTED TO USE PUMP ON 08/30;
DID NOT PRODUCE ADEQUATE WATER

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE: 05/05/13	3Q2013

WELL NO. MW-503B **Coaster**
SAMPLED BY- A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	108.67	(ft.)
DEPTH TO WATER	104.26	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ce	8260B - VOCs + Oxys	VOAs	3	HCL	
		ce	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = \pi r^2 h (\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE:	08/27/13 3Q2013

WELL NO. **MW-701** **Lakeland**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION

WELL DIAMETER	4"	(inches)
DEPTH OF WELL	130	(ft.)
DEPTH TO WATER	102.50	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	
		ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

Casing Volume = $\pi \cdot h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE: 09/06/13	3Q2013

WELL NO. **MW-702** **Lakeland**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	130	(ft.)
DEPTH TO WATER	101.91	(ft.)

Well Notes: Strong H₂S / CH₄ / VOC vapors
WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:
Bladder Pump, YSI 556, Interface Probe

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:	Vent well for 4+ hours prior to sampling
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-MW702-090613 C 0905	
		ice	8015M - TPH-g	VOAs	3	HCL		
		ice	8015 - Methane	VOAs	3	NONE		
		ice	Total Alkalinity	250 ml poly	1	NONE		
		ice	300 IC: nitrate, sulfate	250 ml poly	1	NONE		
		ice	Ferrous Iron	250 ml poly	1	HNO ₃		

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h (\text{ft}) \times 7.48 \text{ gal/ft.}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 08/27/13 3Q2013

WELL NO. MW-703 **Lakeland**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION

WELL DIAMETER	4"	(inches)
DEPTH OF WELL	130	(ft.)
DEPTH TO WATER	103.77	(ft.)

Well Notes: Strong H₂S / LEL / VOC vapors
WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:
Bladder Pump, YSI 556, Interface Probe

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-MW703_082713 C 1430
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	8015 - Methane	VOAs	3	NONE	
		ice	Total Alkalinity	250 ml poly	1	NONE	
		ice	300 IC: nitrate, sulfate	250 ml poly	1	NONE	
		ice	Ferrous Iron	250 ml poly	1	HNO ₃	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h (\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE: 09/06/13	3Q2013

WELL NO. MW-704 **Lakeland**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION

WELL DIAMETER	4'	(inches)
DEPTH OF WELL	130	(ft.)
DEPTH TO WATER	105.45	(ft.)

Well Notes: Strong H2S / LEL / VOC vapors
WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	L11N704. 1mL v 1030
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	8015 - Methane	VOAs	3	NONE	
		ice	Total Alkalinity	250 ml poly	1	NONE	
		ice	300 IC: nitrate, sulfate	250 ml poly	1	NONE	
		ice	Ferrous Iron	250 ml poly	1	HNO ₃	

ADDITIONAL INFORMATION:

Casing Volume = $r^2 h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 08/29/13 3Q2013

WELL NO. MW-705 **Lakeland**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION

WELL DIAMETER	4"	(inches)
DEPTH OF WELL	130	(ft.)
DEPTH TO WATER	106.24	(ft.)

Well Notes: **Strong H2S / LEL / VOC vapors**

PURGING AND SAMPLING EQUIPMENT.

PURGE DATA

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:	Vent well for 4+ hours prior to sampling
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL.MW705.082913 C 1440	
		ice	8015M - TPH-g	VOAs	3	HCL		
		ice	8015 Methane	VOAs	3	NONE		
		ice	Total Alkalinity	250 ml poly	1	NONE		
		ice	300 IC: nitrate, sulfate	250 ml poly	1	NONE		
		ice	Ferrous Iron	250 ml poly	1	HNO ₃		

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h(\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 01/30/13 3Q2013

WELL NO. MW-706 **Lakeland**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION

WELL DIAMETER	4"	(inches)
DEPTH OF WELL	30	(ft.)
DEPTH TO WATER	102.62	(ft.)

Well Notes: _____
WEATHER CONDITIONS: _____

PURGE DATA

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs + Oxygens	VOAs	3	HCL	LL - MW706 - 13017 C 1325
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	8015 - Methane	VOAs	3	NONE	
		ice	Total Alkalinity	250 ml poly	1	NONE	
		ice	300 IC: nitrate, sulfate	250 ml poly	1	NONE	
		ice	Ferrous Iron	250 ml poly	1	HNO ₃	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h (\text{ft}) \times 7.48 \text{ gal/ft.}^3$$

4" well = 0.66 Gal./Foot

2' well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE: 08/30/13	3Q2013

WELL NO. MW-707 Coaster
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	130	(ft.)
DEPTH TO WATER	101 19	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-MW707-383013 C 1435
		ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

Casing Volume = $r^2 h$ (ft) x 7.48 gal/ft.

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 3Q2013

WELL NO. **MW-708** **Hospital**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION

WELL DIAMETER	4"	(inches)
DEPTH OF WELL	130	(ft.)
DEPTH TO WATER / FPPH	100.90 / 100.54 (0.36)	(ft.)

Well Notes: **May contain FPPH**
WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
	Time						
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	8015 - Methane	VOAs	3	NONE	
		ice	Total Alkalinity	250 ml poly	1	NONE	
		ice	300 IC: nitrate, sulfate	250 ml poly	1	NONE	
		ice	Ferrous Iron	250 ml poly	1	HNO ₃	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h(\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE: 09/05/13	3Q2013

WELL NO. **MW-709** Hospital
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	50	(ft.)
DEPTH TO WATER	111.48	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	L1 - NW1709_090513_01C 1325
		ice	8015M - TPH-g	VOAs	3	HCL	L2 - NW709_C1013_02C 1330

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h (\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE: 08/24/13	3Q2013

WELL NO. **MW-710** Hospital
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	130	(ft.)
DEPTH TO WATER	39.33	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	
		ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h (\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal /Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 3Q2013

WELL NO. **MW-711** **Hospital**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	130	(ft.)
DEPTH TO WATER / FPPH	107.14 / 106.06 (1.08)	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv- ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	FPPH - NO SAMPLE
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	8015 - Methane	VOAs	3	NONE	
		ice	Total Alkalinity	250 ml poly	1	NONE	
		ice	300 IC: nitrate, sulfate	250 ml poly	1	NONE	
		ice	Ferrous Iron	250 ml poly	1	HNO ₃	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h (\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE: 09/06/12	3Q2013

WELL NO. **MW-712** **Hospital**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	150	(ft.)
DEPTH TO WATER	152.43	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-MW712-090613-01 @ 13:30
		ice	8015M - TPH-g	VOAs	3	HCL	LL-MW712-090613-02 @ 13:35

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h (\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 09/06/13 3Q2013

WELL NO. **MW-713** **Hospital**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	130	(ft.)
DEPTH TO WATER	107.81	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:
Bladder Pump, YSI 556, Interface Probe

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL - MW715 - 070010 e 1505
		ice	8015M TPH-g	VOAs	3	HCL	
		ice	8015 - Methane	VOAs	3	NONE	
		ice	Total Alkalinity	250 ml poly	1	NONE	
		ice	300 IC: nitrate, sulfate	250 ml poly	1	NONE	
		ice	Ferrous Iron	250 ml poly	1	HNO ₃	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h (\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE: 18/29/13	3Q2013

WELL NO. **MW-714** **Hospital**
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	14 1/2	(ft.)
DEPTH TO WATER	108.94	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
	ice		8260B - VOCs + Oxys	VOAs	3	HCL	
	ice		8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

Casing Volume = $r^2 h(\text{ft}) \times 7.48 \text{ gal/ft}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME:	CENCO
PROJECT NO.:	1003-001-300
DATE: 08/28/13	3Q2013

WELL NO. **MW-715** Hospital
SAMPLED BY: A.Wightman / J. Scott

WELL INFORMATION		
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	134	(ft.)
DEPTH TO WATER	100.88	(ft.)

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preserv-ative	NOTES:
		ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-WW715-1383 C 1035
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	8015 - Methane	VOAs	3	NONE	
		ice	Total Alkalinity	250 ml poly	1	NONE	
		ice	300 IC: nitrate, sulfate	250 ml poly	1	NONE	
		ice	Ferrous Iron	250 ml poly	1	HNO ₃	

ADDITIONAL INFORMATION:

$$\text{Casing Volume} = r^2 h(\text{ft}) \times 7.48 \text{ gal/ft}^3$$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal/Foot

Appendix B



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

28 August 2013

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 08/23/13 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane

Katherine RunningCrane
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W8_082313	T131837-01	Water	08/23/13 07:45	08/23/13 16:00
LL_W7_082313	T131837-02	Water	08/23/13 08:15	08/23/13 16:00
LL_W9_082313	T131837-03	Water	08/23/13 10:55	08/23/13 16:00
LL_MW104A_082313	T131837-04	Water	08/23/13 13:50	08/23/13 16:00
LL_EB_082313	T131837-05	Water	08/23/13 13:50	08/23/13 16:00
LL_TB_082313	T131837-06	Water	08/23/13 00:00	08/23/13 16:00

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

LL_W8_082313
T131837-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

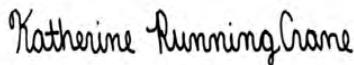
C6-C12 (GRO)	77	50	ug/l	1	3082608	08/26/13	08/28/13	EPA 8015C	
Surrogate: 4-Bromo fluoro benzene		130 %		65-135	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3082609	08/26/13	08/26/13	EPA 8260B	
Bromo-chloromethane	ND	1.0	"	"	"	"	"	"	"
Bromo-dichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromo-methane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloro-methane	ND	1.0	"	"	"	"	"	"	"
2-Chloro-toluene	ND	1.0	"	"	"	"	"	"	"
4-Chloro-toluene	ND	1.0	"	"	"	"	"	"	"
Dibromo-chloro-methane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloro-propane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromo-ethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromo-methane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloro-benzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichloro-benzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichloro-benzene	ND	1.0	"	"	"	"	"	"	"
Dichloro-difluoro-methane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloro-ethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloro-ethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloro-ethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloro-ethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloro-ethene	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Katherine RunningCrane, Project Manager

Page 2 of 24

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

LL_W8_082313
T131837-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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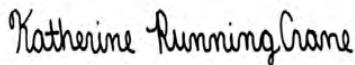
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	3082609	08/26/13	08/26/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	0.79	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Katherine RunningCrane, Project Manager

Page 3 of 24



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

LL_W8_082313
T131837-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	3082609	08/26/13	08/26/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>103 %</i>	<i>83.5-119</i>		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		<i>100 %</i>	<i>81-136</i>		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		<i>101 %</i>	<i>88.8-117</i>		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

LL_W7_082313
T131837-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

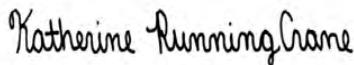
C6-C12 (GRO)	ND	50	ug/l	1	3082608	08/26/13	08/28/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		131 %		65-135	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3082609	08/26/13	08/26/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	1.7	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

LL_W7_082313
T131837-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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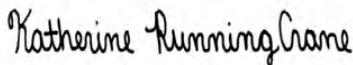
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	3082609	08/26/13	08/26/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	0.59	0.50	"	"	"	"	"	"	
Toluene	0.61	0.50	"	"	"	"	"	"	
Ethylbenzene	0.67	0.50	"	"	"	"	"	"	
m,p-Xylene	1.1	1.0	"	"	"	"	"	"	
o-Xylene	0.72	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

LL_W7_082313
T131837-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	3082609	08/26/13	08/26/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		107 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		96.6 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		100 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

LL_W9_082313
T131837-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

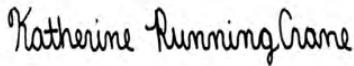
C6-C12 (GRO)	ND	50	ug/l	1	3082608	08/26/13	08/28/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		126 %		65-135	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3082609	08/26/13	08/26/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	2.5	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

LL_W9_082313
T131837-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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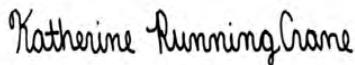
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	3082609	08/26/13	08/26/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

LL_W9_082313
T131837-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	3082609	08/26/13	08/26/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		102 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		95.8 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

LL_MW104A_082313
T131837-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

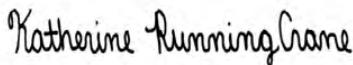
C6-C12 (GRO)	ND	50	ug/l	1	3082608	08/26/13	08/28/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		133 %		65-135	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3082609	08/26/13	08/26/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	4.1	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

LL_MW104A_082313
T131837-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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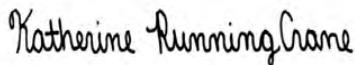
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	3082609	08/26/13	08/26/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

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25712 Commercentre Drive
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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

LL_MW104A_082313
T131837-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	3082609	08/26/13	08/26/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		103 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		99.9 %	88.8-117		"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

Page 13 of 24

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

LL_EB_082313
T131837-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

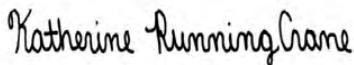
C6-C12 (GRO)	ND	50	ug/l	1	3082608	08/26/13	08/28/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		128 %		65-135	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3082609	08/26/13	08/26/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"

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Katherine RunningCrane, Project Manager

Page 14 of 24

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

LL_EB_082313
T131837-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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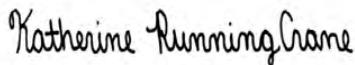
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	3082609	08/26/13	08/26/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

LL_EB_082313
T131837-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	3082609	08/26/13	08/26/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		99.4 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		94.8 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

LL_TB_082313
T131837-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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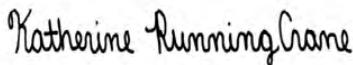
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3082609	08/26/13	08/26/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

LL_TB_082313
T131837-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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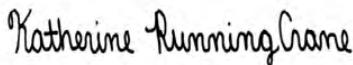
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	3082609	08/26/13	08/26/13	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

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15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

LL_TB_082313
T131837-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	3082609	08/26/13	08/26/13	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		103 %	83.5-119	"	"	"	"	"	
Surrogate: Dibromofluoromethane		99.6 %	81-136	"	"	"	"	"	
Surrogate: Toluene-d8		99.4 %	88.8-117	"	"	"	"	"	



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3082608 - EPA 5030 GC

Blank (3082608-BLK1)						Prepared: 08/26/13 Analyzed: 08/28/13				
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	115	"		100		115	65-135			
LCS (3082608-BS1)						Prepared: 08/26/13 Analyzed: 08/28/13				
C6-C12 (GRO)	6250	50	ug/l				75-125			
Surrogate 4-Bromofluorobenzene	101	"		100		101	65-135			
Matrix Spike (3082608-MS1)						Source: T131837-01 Prepared: 08/26/13 Analyzed: 08/28/13				
C6-C12 (GRO)	5810	50	ug/l			77.4	65-135			
Surrogate 4-Bromofluorobenzene	101	"		100		101	65-135			
Matrix Spike Dup (3082608-MSD1)						Source: T131837-01 Prepared: 08/26/13 Analyzed: 08/28/13				
C6-C12 (GRO)	6370	50	ug/l			77.4	65-135	9.31	20	
Surrogate 4-Bromofluorobenzene	111	"		100		111	65-135			

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

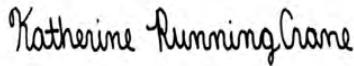
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3082609 - EPA 5030 GCMS

Blank (3082609-BLK1)	Prepared & Analyzed: 08/26/13									
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Katherine RunningCrane, Project Manager

Page 21 of 24

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3082609 - EPA 5030 GCMS

Blank (3082609-BLK1)		Prepared & Analyzed: 08/26/13								
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
<i>Surrogate 4-Bromofluorobenzene</i>	8.28	"	8.00		104	83.5-119				
<i>Surrogate Dibromofluoromethane</i>	7.75	"	8.00		96.9	81-136				
<i>Surrogate Toluene-d8</i>	8.04	"	8.00		100	88.8-117				

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	---------	-------------

Batch 3082609 - EPA 5030 GCMS

LCS (3082609-BS1)						
Prepared & Analyzed: 08/26/13						
Chlorobenzene	19.4	1.0	ug/l	20.0	97.0	75-125
1,1-Dichloroethene	18.7	1.0	"	20.0	93.4	75-125
Trichloroethene	17.7	1.0	"	20.0	88.7	75-125
Benzene	18.8	0.50	"	20.0	94.0	75-125
Toluene	18.2	0.50	"	20.0	90.8	75-125
<i>Surrogate</i> 4-Bromofluorobenzene	7.85		"	8.00	98.1	83.5-119
<i>Surrogate</i> Dibromofluoromethane	8.54		"	8.00	107	81-136
<i>Surrogate</i> Toluene-d8	7.92		"	8.00	99.0	88.8-117

Matrix Spike (3082609-MS1)						
Source: T131837-02 Prepared & Analyzed: 08/26/13						
Chlorobenzene	19.5	1.0	ug/l	20.0	ND	97.4
1,1-Dichloroethene	19.9	1.0	"	20.0	ND	99.3
Trichloroethene	17.0	1.0	"	20.0	ND	85.0
Benzene	18.9	0.50	"	20.0	0.590	91.4
Toluene	19.1	0.50	"	20.0	0.610	92.5
<i>Surrogate</i> 4-Bromofluorobenzene	8.08		"	8.00	101	83.5-119
<i>Surrogate</i> Dibromofluoromethane	8.68		"	8.00	108	81-136
<i>Surrogate</i> Toluene-d8	7.58		"	8.00	94.8	88.8-117

Matrix Spike Dup (3082609-MSD1)						
Source: T131837-02 Prepared & Analyzed: 08/26/13						
Chlorobenzene	19.0	1.0	ug/l	20.0	ND	95.2
1,1-Dichloroethene	19.4	1.0	"	20.0	ND	97.0
Trichloroethene	16.8	1.0	"	20.0	ND	84.0
Benzene	19.4	0.50	"	20.0	0.590	94.0
Toluene	18.8	0.50	"	20.0	0.610	90.9
<i>Surrogate</i> 4-Bromofluorobenzene	7.98		"	8.00	99.8	83.5-119
<i>Surrogate</i> Dibromofluoromethane	8.58		"	8.00	107	81-136
<i>Surrogate</i> Toluene-d8	7.90		"	8.00	98.8	88.8-117



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
08/28/13 15:23

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
 Address: 15375 Barranca Pkwy, Ste. K-101, Irvine, CA 92618
 Phone: (714) 508-0800 Fax: (714) 508-0880
 Project Manager: Jeremy Squire (714) 604-5836

Date: 08/23/2013 Page: 1 OF 1
 Project Name: CENCO
 Collector: A. Wightman / J. Scott Client Project #: 1003-001-300
 Batch #: T131837 EDF #:

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)	Methane	Alkalinity	Nitrate, Sulfate (300)	Ferrous Iron	Total # of containers	Comments/Preservative	Laboratory ID #
LL-W8-082313	08/23/13	0745	WATER	X	X					6		01
LL-W7-082313		0815		X	X					6		02
LL-W9-082313		1055		X	X					6		03
LL-MW104A-082313		1350		X	X					6		04
LL-EB-082313		0900		X	X					2		05
LL-TB-082313	-	-		X						2		06
Relinquished by: (signature)	Date / Time		Received by: (Sign / Date / Time)			Total # of containers		28		Notes		
<i>TJS</i>	<i>08/23/13 16:00</i>		<i>JW 08/23/13 16:00</i>					Chain of Custody seals				
Relinquished by: (signature)	Date / Time		Received by: (Sign / Date / Time)			Seals intact? Y/N/NA						
						Received good condition/cold						
Relinquished by: (signature)	Date / Time		Received by: (Sign / Date / Time)			Turn around time: Standard		2.5				

Sample disposal Instructions: Disposal @ \$2.00 each

Return to client

Pickup

SAMPLE RECEIVING REVIEW SHEET

BATCH # 7131837

Client Name: MUREX

Project: CENCO

Received by: PATRICK

Date/Time Received: 8.23.13 / 16:00

Delivered by : Client SunStar Courier GSO FedEx Other _____

Total number of coolers received 0

Temp criteria = $6^{\circ}\text{C} > 0^{\circ}\text{C}$ (no frozen containers)

Temperature: cooler #1 2.7 $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = 2.5 $^{\circ}\text{C}$ corrected temperature

cooler #2 _____ $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = _____ $^{\circ}\text{C}$ corrected temperature

cooler #3 _____ $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = _____ $^{\circ}\text{C}$ corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. Yes No* N/A

Custody Seals Intact on Cooler/Sample Yes No* N/A

Sample Containers Intact Yes No*

Sample labels match COC ID's Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. Yes No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date

SL 8.23.13

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

29 August 2013

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 08/26/13 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane

Katherine RunningCrane
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-200
Project Manager: Jeremy Squire

Reported:
08/29/13 15:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W14B_082613	T131840-01	Water	08/26/13 09:40	08/26/13 15:30
LL_W14C_082613	T131840-02	Water	08/26/13 11:05	08/26/13 15:30
LL_W17A_082613	T131840-03	Water	08/26/13 14:15	08/26/13 15:30
LL_TB_082613	T131840-04	Water	08/26/13 00:00	08/26/13 15:30

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-200
Project Manager: Jeremy Squire

Reported:
08/29/13 15:20

LL_W14B_082613
T131840-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

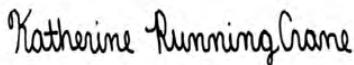
C6-C12 (GRO)	59	50	ug/l	1	3082712	08/27/13	08/28/13	EPA 8015C	
Surrogate: 4-Bromo fluoro benzene		131 %		65-135	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3082713	08/27/13	08/27/13	EPA 8260B	
Bromo-chloromethane	ND	1.0	"	"	"	"	"	"	"
Bromo-dichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromo-chloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	2.8	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	34	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	86	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	1.6	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

Page 2 of 18

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-200
Project Manager: Jeremy Squire

Reported:
08/29/13 15:20

LL_W14B_082613
T131840-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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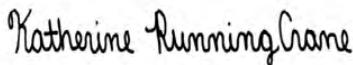
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	3082713	08/27/13	08/27/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	2.6	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

Page 3 of 18



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-200
Project Manager: Jeremy Squire

Reported:
08/29/13 15:20

LL_W14B_082613
T131840-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	3082713	08/27/13	08/27/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		94.9 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		99.5 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-200
Project Manager: Jeremy Squire

Reported:
08/29/13 15:20

LL_W14C_082613
T131840-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

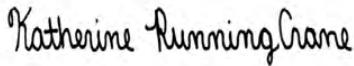
C6-C12 (GRO)	84	50	ug/l	1	3082712	08/27/13	08/28/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		133 %		65-135	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3082713	08/27/13	08/27/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	1.1	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	7.5	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	35	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	2.2	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

Page 5 of 18

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-200
Project Manager: Jeremy Squire

Reported:
08/29/13 15:20

LL_W14C_082613
T131840-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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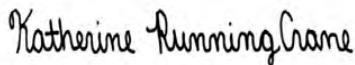
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	3082713	08/27/13	08/27/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	0.59	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-200
Project Manager: Jeremy Squire

Reported:
08/29/13 15:20

LL_W14C_082613
T131840-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	3082713	08/27/13	08/27/13	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %	83.5-119		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		99.0 %	81-136		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		104 %	88.8-117		"	"	"	"	

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-200
Project Manager: Jeremy Squire

Reported:
08/29/13 15:20

LL_W17A_082613
T131840-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

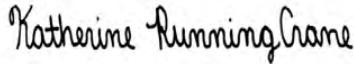
C6-C12 (GRO)	ND	50	ug/l	1	3082712	08/27/13	08/28/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		130 %		65-135	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3082713	08/27/13	08/27/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	2.2	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	13	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	1.2	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-200
Project Manager: Jeremy Squire

Reported:
08/29/13 15:20

LL_W17A_082613
T131840-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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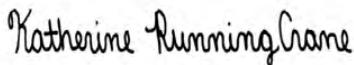
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	3082713	08/27/13	08/27/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-200
Project Manager: Jeremy Squire

Reported:
08/29/13 15:20

LL_W17A_082613
T131840-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	3082713	08/27/13	08/27/13	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		102 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		101 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-200
Project Manager: Jeremy Squire

Reported:
08/29/13 15:20

LL_TB_082613
T131840-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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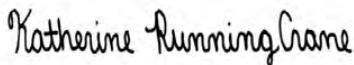
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3082713	08/27/13	08/27/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-200
Project Manager: Jeremy Squire

Reported:
08/29/13 15:20

LL_TB_082613
T131840-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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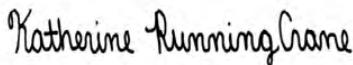
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	3082713	08/27/13	08/27/13	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-200
Project Manager: Jeremy Squire

Reported:
08/29/13 15:20

LL_TB_082613
T131840-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	3082713	08/27/13	08/27/13	EPA 8260B	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	83.5-119	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		99.4 %	81-136	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	88.8-117	"	"	"	"	"	

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-200
Project Manager: Jeremy Squire

Reported:
08/29/13 15:20

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3082712 - EPA 5030 GC

Blank (3082712-BLK1)						Prepared: 08/27/13 Analyzed: 08/28/13				
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	125	"		100		125	65-135			
LCS (3082712-BS1)						Prepared: 08/27/13 Analyzed: 08/28/13				
C6-C12 (GRO)	4650	50	ug/l			75-125				
Surrogate 4-Bromofluorobenzene	93.0	"		100		93.0	65-135			
Matrix Spike (3082712-MS1)						Source: T131840-01	Prepared: 08/27/13 Analyzed: 08/28/13			
C6-C12 (GRO)	4830	50	ug/l			59.0	65-135			
Surrogate 4-Bromofluorobenzene	109	"		100		109	65-135			
Matrix Spike Dup (3082712-MSD1)						Source: T131840-01	Prepared: 08/27/13 Analyzed: 08/28/13			
C6-C12 (GRO)	4250	50	ug/l			59.0	65-135	12.7	20	
Surrogate 4-Bromofluorobenzene	107	"		100		107	65-135			

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-200
Project Manager: Jeremy Squire

Reported:
08/29/13 15:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 3082713 - EPA 5030 GCMS

Blank (3082713-BLK1)

Prepared & Analyzed: 08/27/13

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Katherine RunningCrane, Project Manager

Page 15 of 18

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-200
Project Manager: Jeremy Squire

Reported:
08/29/13 15:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 3082713 - EPA 5030 GCMS

Blank (3082713-BLK1)		Prepared & Analyzed: 08/27/13							
p-Isopropyltoluene	ND	1.0	ug/l						
Methylene chloride	ND	1.0	"						
Naphthalene	ND	1.0	"						
n-Propylbenzene	ND	1.0	"						
Styrene	ND	1.0	"						
1,1,2,2-Tetrachloroethane	ND	1.0	"						
1,1,1,2-Tetrachloroethane	ND	1.0	"						
Tetrachloroethene	ND	1.0	"						
1,2,3-Trichlorobenzene	ND	1.0	"						
1,2,4-Trichlorobenzene	ND	1.0	"						
1,1,2-Trichloroethane	ND	1.0	"						
1,1,1-Trichloroethane	ND	1.0	"						
Trichloroethene	ND	1.0	"						
Trichlorofluoromethane	ND	1.0	"						
1,2,3-Trichloropropane	ND	1.0	"						
1,3,5-Trimethylbenzene	ND	1.0	"						
1,2,4-Trimethylbenzene	ND	1.0	"						
Vinyl chloride	ND	1.0	"						
Benzene	ND	0.50	"						
Toluene	ND	0.50	"						
Ethylbenzene	ND	0.50	"						
m,p-Xylene	ND	1.0	"						
o-Xylene	ND	0.50	"						
Tert-amyl methyl ether	ND	2.0	"						
Tert-butyl alcohol	ND	10	"						
Di-isopropyl ether	ND	2.0	"						
Ethyl tert-butyl ether	ND	2.0	"						
Methyl tert-butyl ether	ND	1.0	"						
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"						
<i>Surrogate 4-Bromofluorobenzene</i>	7.30	"	8.00		91.2	83.5-119			
<i>Surrogate Dibromofluoromethane</i>	6.33	"	8.00		79.1	81-136			S-GC
<i>Surrogate Toluene-d8</i>	7.53	"	8.00		94.1	88.8-117			

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-200
Project Manager: Jeremy Squire

Reported:
08/29/13 15:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	---------	-------------

Batch 3082713 - EPA 5030 GCMS

LCS (3082713-BS1)							Prepared & Analyzed: 08/27/13		
Chlorobenzene	17.8	1.0	ug/l	20.0		89.2	75-125		
1,1-Dichloroethene	19.1	1.0	"	20.0		95.4	75-125		
Trichloroethene	17.4	1.0	"	20.0		87.0	75-125		
Benzene	18.4	0.50	"	20.0		91.9	75-125		
Toluene	18.2	0.50	"	20.0		91.1	75-125		
<i>Surrogate</i> 4-Bromofluorobenzene	7.64		"	8.00		95.5	83.5-119		
<i>Surrogate</i> Dibromofluoromethane	8.15		"	8.00		102	81-136		
<i>Surrogate</i> Toluene-d8	8.04		"	8.00		100	88.8-117		

Matrix Spike (3082713-MS1)							Source: T131840-01 Prepared & Analyzed: 08/27/13		
Chlorobenzene	18.7	1.0	ug/l	20.0	ND	93.6	75-125		
1,1-Dichloroethene	48.7	1.0	"	20.0	33.8	74.2	75-125		QM-05
Trichloroethene	19.8	1.0	"	20.0	2.61	86.2	75-125		
Benzene	18.9	0.50	"	20.0	ND	94.6	75-125		
Toluene	19.1	0.50	"	20.0	0.480	93.3	75-125		
<i>Surrogate</i> 4-Bromofluorobenzene	8.29		"	8.00		104	83.5-119		
<i>Surrogate</i> Dibromofluoromethane	8.15		"	8.00		102	81-136		
<i>Surrogate</i> Toluene-d8	7.99		"	8.00		99.9	88.8-117		

Matrix Spike Dup (3082713-MSD1)							Source: T131840-01 Prepared & Analyzed: 08/27/13		
Chlorobenzene	19.4	1.0	ug/l	20.0	ND	97.2	75-125	3.83	20
1,1-Dichloroethene	47.8	1.0	"	20.0	33.8	69.9	75-125	1.78	20
Trichloroethene	19.8	1.0	"	20.0	2.61	86.2	75-125	0.00	20
Benzene	18.8	0.50	"	20.0	ND	94.2	75-125	0.371	20
Toluene	19.3	0.50	"	20.0	0.480	94.3	75-125	1.04	20
<i>Surrogate</i> 4-Bromofluorobenzene	8.53		"	8.00		107	83.5-119		
<i>Surrogate</i> Dibromofluoromethane	8.31		"	8.00		104	81-136		
<i>Surrogate</i> Toluene-d8	7.96		"	8.00		99.5	88.8-117		



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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-200
Project Manager: Jeremy Squire

Reported:
08/29/13 15:20

Notes and Definitions

S-GC	Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
 Address: 15375 Barranca Pkwy, Ste. K-101, Irvine, CA 92618
 Phone: (714) 508-0800 Fax: (714) 508-0880
 Project Manager: Jeremy Squire (714) 604-5836

Date: 08/26/13

Page: 1 OF 1

Project Name: CENCO

Collector: A. Wightman / J. Scott Client Project #: 1003-001-300
 Batch #: T131840 EDF #:

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)	Methane	Alkalinity	Nitrate, Sulfate (300)	Ferrous Iron	Total # of containers	Comments/Preservative	Laboratory ID #
LL-W148-082613	08/26/13	0940	WATER	X	X					6		01
LL-W14C-082613		1105		X	X					6		02
LL-W17A-082613		1415		X	X					6		03
LL-TB-082613	-	-		X						2		04
<i>T. A. W.</i>												

Relinquished by: (signature) <i>T. A. W.</i>	Date / Time <u>08/26/13 1530</u>	Received by: (Sign / Date / Time) <u>JATn AR 8/26/13</u>	Total # of containers 20	Notes <i>3.4</i>
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)	Chain of Custody seals ~	
			Seals intact? Y/N/NA N/A	
			Received good condition/cold Y	

Sample disposal instructions: Disposal @ \$2.00 each _____

Return to client _____

Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # T131840

Client Name: Murex

Project: Cenco

Received by: Patrick

Date/Time Received: 8/26/13 1530

Delivered by: Client SunStar Courier GSO FedEx Other _____

Total number of coolers received 1 Temp criteria = $6^{\circ}\text{C} > 0^{\circ}\text{C}$ (no frozen containers)

Temperature: cooler #1 3.6 $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = 3.4 $^{\circ}\text{C}$ corrected temperature

cooler #2 _____ $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = _____ $^{\circ}\text{C}$ corrected temperature

cooler #3 _____ $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = _____ $^{\circ}\text{C}$ corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. Yes No* N/A

Custody Seals Intact on Cooler/Sample Yes No* N/A

Sample Containers Intact Yes No*

Sample labels match COC ID's Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. Yes No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date DM 8/26/13

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
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04 September 2013

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 08/27/13 15:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane

Katherine RunningCrane
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W17B_082713	T131849-01	Water	08/27/13 09:10	08/27/13 15:40
LL_W17C_082713	T131849-02	Water	08/27/13 10:10	08/27/13 15:40
LL_MW701_082713	T131849-03	Water	08/27/13 12:40	08/27/13 15:40
LL_MW703_082713	T131849-04	Water	08/27/13 14:30	08/27/13 15:40
LL_TB_082713	T131849-05	Water	08/27/13 00:00	08/27/13 15:40

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

LL_W17B_082713
T131849-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

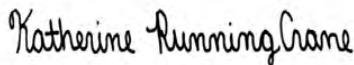
C6-C12 (GRO)	ND	50	ug/l	1	3082814	08/28/13	08/29/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		131 %		65-135	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3082816	08/28/13	08/28/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	1.0	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Katherine RunningCrane, Project Manager

Page 2 of 25

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

LL_W17B_082713
T131849-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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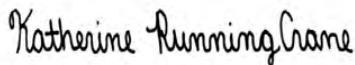
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	3082816	08/28/13	08/28/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

Page 3 of 25



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

LL_W17B_082713
T131849-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	3082816	08/28/13	08/28/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>105 %</i>	<i>83.5-119</i>		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		<i>110 %</i>	<i>81-136</i>		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		<i>100 %</i>	<i>88.8-117</i>		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

LL_W17C_082713
T131849-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

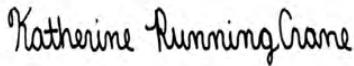
C6-C12 (GRO)	ND	50	ug/l	1	3082814	08/28/13	08/29/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		132 %		65-135	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3082816	08/28/13	08/28/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

Page 5 of 25

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

LL_W17C_082713
T131849-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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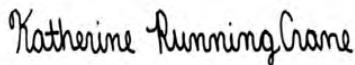
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	3082816	08/28/13	08/28/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	0.54	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

LL_W17C_082713
T131849-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	3082816	08/28/13	08/28/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		107 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		114 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		96.1 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

LL_MW701_082713
T131849-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	52	50	ug/l	1	3082814	08/28/13	08/29/13	EPA 8015C
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Surrogate: 4-Bromofluorobenzene

130 %

65-135

"

"

"

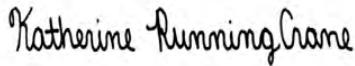
"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3082816	08/28/13	08/28/13	EPA 8260B
Bromoform	ND	1.0	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	1.0	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	5.4	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	33	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	8.5	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

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Katherine RunningCrane, Project Manager

Page 8 of 25

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

LL_MW701_082713
T131849-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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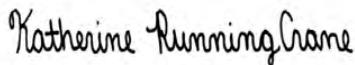
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	3082816	08/28/13	08/28/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	2.3	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	8.5	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

LL_MW701_082713
T131849-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	3082816	08/28/13	08/28/13	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	83.5-119		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		106 %	81-136		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	88.8-117		"	"	"	"	

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

LL_MW703_082713
T131849-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	3082814	08/28/13	08/29/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		130 %		65-135	"	"	"	"	"

Metals by SM 3500 Series Methods

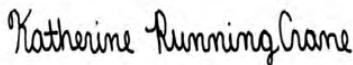
Ferrous Iron	1.18	0.100	mg/l	1	3082813	08/28/13	09/03/13	EPA6010/S M3500	
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3082816	08/28/13	08/28/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

LL_MW703_082713
T131849-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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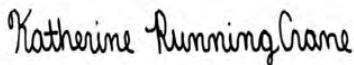
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloroethene	1.9	1.0	ug/l	1	3082816	08/28/13	08/28/13	EPA 8260B	
cis-1,2-Dichloroethene	21	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"	"
Benzene	8.7	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

LL_MW703_082713
T131849-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

m,p-Xylene	ND	1.0	ug/l	1	3082816	08/28/13	08/28/13	EPA 8260B	
o-Xylene	ND	0.50	"	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		109 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		95.2 %	88.8-117		"	"	"	"	"

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Total Alkalinity	690	20	mg/l	1	3082812	08/28/13	08/28/13	EPA 310.1	
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Anions by EPA Method 300.0

Sulfate as SO4	253	100	mg/l	10	3082811	08/28/13	08/29/13	EPA 300.0	
Nitrate as NO3	ND	0.500	"	1	"	"	08/28/13	"	

RSK-175

Methane	62.3	1.00	ug/l	1	3083007	08/30/13	08/30/13	RSK-175	
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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

LL_TB_082713
T131849-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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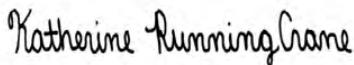
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3082816	08/28/13	08/28/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

Page 14 of 25

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

LL_TB_082713
T131849-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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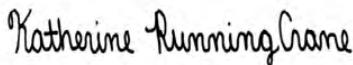
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Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	3082816	08/28/13	08/28/13	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

LL_TB_082713
T131849-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	3082816	08/28/13	08/28/13	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		103 %	83.5-119	"	"	"	"	"	
Surrogate: Dibromofluoromethane		111 %	81-136	"	"	"	"	"	
Surrogate: Toluene-d8		100 %	88.8-117	"	"	"	"	"	



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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3082814 - EPA 5030 GC

Blank (3082814-BLK1)		Prepared: 08/28/13 Analyzed: 08/29/13										
C6-C12 (GRO)	ND	50	ug/l									
Surrogate 4-Bromofluorobenzene	115	"		100		115	65-135					
LCS (3082814-BS1)		Prepared: 08/28/13 Analyzed: 08/29/13										
C6-C12 (GRO)	5320	50	ug/l			75-125						
Surrogate 4-Bromofluorobenzene	97.1	"		100		97.1	65-135					
Matrix Spike (3082814-MS1)		Source: T131849-01		Prepared: 08/28/13 Analyzed: 08/29/13								
C6-C12 (GRO)	5120	50	ug/l		25.4		65-135					
Surrogate 4-Bromofluorobenzene	104	"		100		104	65-135					
Matrix Spike Dup (3082814-MSD1)		Source: T131849-01		Prepared: 08/28/13 Analyzed: 08/29/13								
C6-C12 (GRO)	5670	50	ug/l		25.4		65-135	10.1	20			
Surrogate 4-Bromofluorobenzene	113	"		100		113	65-135					



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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

Metals by SM 3500 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD Limit	Notes
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Batch 3082813 - EPA 3010A

Blank (3082813-BLK1)

Ferrous Iron ND 0.100 mg/l

Prepared: 08/28/13 Analyzed: 09/03/13

Duplicate (3082813-DUP1)

Ferrous Iron 1.18 0.100 mg/l 1.18 0.679 200

Source: T131849-04

Prepared: 08/28/13 Analyzed: 09/03/13

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

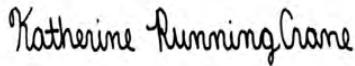
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3082816 - EPA 5030 GCMS

Blank (3082816-BLK1)	Prepared & Analyzed: 08/28/13									
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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Katherine RunningCrane, Project Manager

Page 19 of 25

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3082816 - EPA 5030 GCMS

Blank (3082816-BLK1)

Prepared & Analyzed: 08/28/13

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
<i>Surrogate 4-Bromofluorobenzene</i>	8.25	"	8.00		103	83.5-119				
<i>Surrogate Dibromofluoromethane</i>	8.42	"	8.00		105	81-136				
<i>Surrogate Toluene-d8</i>	7.77	"	8.00		97.1	88.8-117				

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 3082816 - EPA 5030 GCMS

LCS (3082816-BS1)							Prepared & Analyzed: 08/28/13			
Matrix Spike (3082816-MS1)							Source: T131849-01	Prepared: 08/28/13 Analyzed: 08/29/13		
Matrix Spike Dup (3082816-MSD1)							Source: T131849-01	Prepared: 08/28/13 Analyzed: 08/29/13		
Chlorobenzene	18.6	1.0	ug/l	20.0		92.8	75-125			
1,1-Dichloroethene	20.4	1.0	"	20.0		102	75-125			
Trichloroethene	17.7	1.0	"	20.0		88.4	75-125			
Benzene	18.2	0.50	"	20.0		91.0	75-125			
Toluene	16.8	0.50	"	20.0		84.0	75-125			
<i>Surrogate</i> 4-Bromofluorobenzene	8.06		"	8.00		101	83.5-119			
<i>Surrogate</i> Dibromofluoromethane	9.69		"	8.00		121	81-136			
<i>Surrogate</i> Toluene-d8	7.45		"	8.00		93.1	88.8-117			
Chlorobenzene	19.4	1.0	ug/l	20.0	ND	96.8	75-125			
1,1-Dichloroethene	20.9	1.0	"	20.0	ND	105	75-125			
Trichloroethene	17.6	1.0	"	20.0	0.280	86.6	75-125			
Benzene	19.4	0.50	"	20.0	ND	97.0	75-125			
Toluene	18.7	0.50	"	20.0	0.470	91.0	75-125			
<i>Surrogate</i> 4-Bromofluorobenzene	7.97		"	8.00		99.6	83.5-119			
<i>Surrogate</i> Dibromofluoromethane	9.33		"	8.00		117	81-136			
<i>Surrogate</i> Toluene-d8	7.48		"	8.00		93.5	88.8-117			
Chlorobenzene	18.7	1.0	ug/l	20.0	ND	93.5	75-125	3.47	20	
1,1-Dichloroethene	21.5	1.0	"	20.0	ND	107	75-125	2.64	20	
Trichloroethene	17.2	1.0	"	20.0	0.280	84.6	75-125	2.18	20	
Benzene	20.1	0.50	"	20.0	ND	100	75-125	3.60	20	
Toluene	19.2	0.50	"	20.0	0.470	93.6	75-125	2.75	20	
<i>Surrogate</i> 4-Bromofluorobenzene	7.52		"	8.00		94.0	83.5-119			
<i>Surrogate</i> Dibromofluoromethane	10.2		"	8.00		128	81-136			
<i>Surrogate</i> Toluene-d8	7.51		"	8.00		93.9	88.8-117			



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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit	Notes
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Batch 3082812 - General Preparation

Duplicate (3082812-DUP1)	Source: T131849-04	Prepared & Analyzed: 08/28/13
Total Alkalinity	690	20 mg/l

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

Anions by EPA Method 300.0 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 3082811 - General Preparation

Blank (3082811-BLK1) Prepared: 08/28/13 Analyzed: 08/29/13

Sulfate as SO4	ND	10.0	mg/l						
Nitrate as NO3	ND	0.500	"						

LCS (3082811-BS1) Prepared & Analyzed: 08/28/13

Sulfate as SO4	10.5	10.0	mg/l	10.0	105	75-125			
Nitrate as NO3	0.623	0.500	"	0.500	125	75-125			

Matrix Spike (3082811-MS1) Source: T131849-04 Prepared & Analyzed: 08/28/13

Sulfate as SO4	250	10.0	mg/l	10.0	253	NR	75-125		QM-4X
Nitrate as NO3	0.829	0.500	"	0.500	0.253	115	75-125		

Matrix Spike Dup (3082811-MSD1) Source: T131849-04 Prepared & Analyzed: 08/28/13

Sulfate as SO4	250	10.0	mg/l	10.0	253	NR	75-125	0.0140	20	QM-4X
Nitrate as NO3	0.850	0.500	"	0.500	0.253	119	75-125	2.50	20	



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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

RSK-175 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 3083007 - EPA 3810m Headspace

Blank (3083007-BLK1)

Methane ND 1.00 ug/l

Prepared & Analyzed: 08/30/13

Duplicate (3083007-DUP1)

Methane 51.4 1.00 ug/l 62.3 19.3 20

Source: T131849-04

Prepared & Analyzed: 08/30/13



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15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:12

Notes and Definitions

QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
 Address: 15375 Barranca Pkwy, Ste. K-101, Irvine, CA 92618
 Phone: (714) 508-0800 Fax: (714) 508-0880
 Project Manager: Jeremy Squire (714) 604-5836

Date: 08/27/13

Page: 1 OF 1

Project Name: CENCO

Collector: A. Wightman / J. Scott Client Project #: 1003-001-300

Batch #: T131849

EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)	Methane	Alkalinity	Nitrate, Sulfate (300)	Ferrous Iron	Total # of containers	Comments/Preservative	Laboratory ID #	
LL-W17B-082713		0910		X	X					6		01	
LL-W17C-082713		1010		X	X					6		02	
LL-MW701-082713		1240		X	X					6		03	
LL-MW703-082713		1430		X	X	X	X	X		12		04	
LL-TB-082713	-	-		X						2		05	
<i>TAN</i>													
Relinquished by: (signature)	Date / Time			Received by: (Sign / Date / Time)			Total # of containers			32	Notes		
<i>TAN</i>	<u>08/27/13 1540</u>			<u>PCHOL 8/27/13 15:40</u>								Chain of Custody seals	
Relinquished by: (signature)	Date / Time			Received by: (Sign / Date / Time)			Seals intact? Y/N/NA						
							Received good condition/cold			3.7			
Relinquished by: (signature)	Date / Time			Received by: (Sign / Date / Time)			Turn around time:			Standard			

Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # T731849

Client Name: MUREX

Project: CENCO

Received by: PATRICK

Date/Time Received: 8-27-13 / 15:40

Delivered by : Client SunStar Courier GSO FedEx Other _____

Total number of coolers received 0 Temp criteria = $6^{\circ}\text{C} > 0^{\circ}\text{C}$ (no frozen containers)

Temperature: cooler #1 3.9 $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = 3.7 $^{\circ}\text{C}$ corrected temperature

cooler #2 _____ $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = _____ $^{\circ}\text{C}$ corrected temperature

cooler #3 _____ $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = _____ $^{\circ}\text{C}$ corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. Yes No* N/A

Custody Seals Intact on Cooler/Sample Yes No* N/A

Sample Containers Intact Yes No*

Sample labels match COC ID's Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes, preservatives and within method specified holding times. Yes No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date SL 8-27-13

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

04 September 2013

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 08/28/13 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane

Katherine RunningCrane
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W1_082813	T131855-01	Water	08/28/13 08:55	08/28/13 16:00
LL_MW715_082813	T131855-02	Water	08/28/13 10:35	08/28/13 16:00
LL_W16B_082813	T131855-03	Water	08/28/13 13:30	08/28/13 16:00
LL_W16C_082813	T131855-04	Water	08/28/13 14:55	08/28/13 16:00
LL_TB_082813	T131855-05	Water	08/28/13 00:00	08/28/13 16:00

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

LL_W1_082813
T131855-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	74	50	ug/l	1	3082919	08/29/13	08/29/13	EPA 8015C	
Surrogate: 4-Bromo fluoro benzene		137 %		65-135	"	"	"	"	S-04

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3082926	08/29/13	08/29/13	EPA 8260B	
Bromo-chloromethane	ND	1.0	"	"	"	"	"	"	"
Bromo-dichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromo-methane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloro-methane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromo-chloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromo-methane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloro-benzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichloro-benzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichloro-benzene	ND	1.0	"	"	"	"	"	"	"
Dichloro-difluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Katherine RunningCrane, Project Manager

Page 2 of 25

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

LL_W1_082813
T131855-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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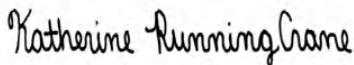
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	3082926	08/29/13	08/29/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	1.0	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	5.1	1.0	"	"	"	"	"	"	
Benzene	3.8	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

Page 3 of 25



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

LL_W1_082813
T131855-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	3082926	08/29/13	08/29/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	7.6	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		107 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		95.6 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		95.0 %	88.8-117		"	"	"	"	"

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

LL_MW715_082813
T131855-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

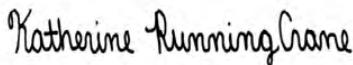
C6-C12 (GRO)	ND	50	ug/l	1	3082919	08/29/13	08/29/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		149 %		65-135	"	"	"	"	S-04

Metals by SM 3500 Series Methods

Ferrous Iron	2.50	0.100	mg/l	1	3082921	08/29/13	09/03/13	EPA6010/S M3500	
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3082926	08/29/13	08/29/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	



Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

LL_MW715_082813
T131855-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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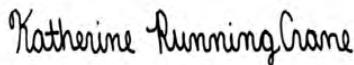
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloroethene	ND	1.0	ug/l	1	3082926	08/29/13	08/29/13	EPA 8260B	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

Page 6 of 25

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

LL_MW715_082813
T131855-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

m,p-Xylene	ND	1.0	ug/l	1	3082926	08/29/13	08/29/13	EPA 8260B	
o-Xylene	ND	0.50	"	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		96.1 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		101 %	88.8-117		"	"	"	"	"

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Total Alkalinity	400	20	mg/l	1	3082920	08/29/13	09/03/13	EPA 310.1	
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Anions by EPA Method 300.0

Sulfate as SO4	231	100	mg/l	10	3082918	08/29/13	08/29/13	EPA 300.0	
Nitrate as NO3	ND	0.500	"	1	"	"	08/29/13	"	

RSK-175

Methane	24.8	1.00	ug/l	1	3083007	08/30/13	08/30/13	RSK-175	
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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

LL_W16B_082813
T131855-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

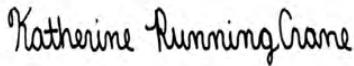
C6-C12 (GRO)	200	50	ug/l	1	3082919	08/29/13	08/29/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		137 %		65-135	"	"	"	"	S-04

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3082926	08/29/13	08/29/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	1.8	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	10	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	17	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"

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Katherine RunningCrane, Project Manager

Page 8 of 25

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

LL_W16B_082813
T131855-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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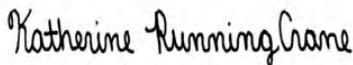
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	3082926	08/29/13	08/29/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	2.7	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	1.2	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	5.2	1.0	"	"	"	"	"	"	
Benzene	63	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

LL_W16B_082813
T131855-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	3082926	08/29/13	08/29/13	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>101 %</i>	<i>83.5-119</i>		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		<i>102 %</i>	<i>81-136</i>		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>102 %</i>	<i>88.8-117</i>		"	"	"	"	

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

LL_W16C_082813
T131855-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

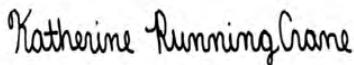
C6-C12 (GRO)	170	50	ug/l	1	3082919	08/29/13	08/29/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		143 %		65-135	"	"	"	"	S-04

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3082926	08/29/13	08/29/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	9.6	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	55	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	51	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	21	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

LL_W16C_082813
T131855-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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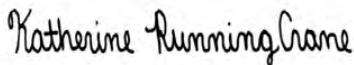
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	3082926	08/29/13	08/29/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	55	1.0	"	"	"	"	"	"	
Benzene	33	0.50	"	"	"	"	"	"	
Toluene	0.52	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

LL_W16C_082813
T131855-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	3082926	08/29/13	08/29/13	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		103 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		98.2 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

LL_TB_082813
T131855-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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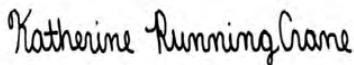
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3082926	08/29/13	08/29/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

LL_TB_082813
T131855-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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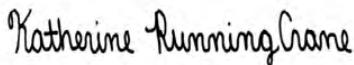
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	3082926	08/29/13	08/29/13	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

LL_TB_082813
T131855-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	3082926	08/29/13	08/29/13	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		106 %	83.5-119	"	"	"	"	"	
Surrogate: Dibromofluoromethane		98.0 %	81-136	"	"	"	"	"	
Surrogate: Toluene-d8		99.1 %	88.8-117	"	"	"	"	"	

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3082919 - EPA 5030 GC

Blank (3082919-BLK1)

C6-C12 (GRO)	ND	50	ug/l							
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Surrogate 4-Bromofluorobenzene 127 " 100 127 65-135

LCS (3082919-BS1)

C6-C12 (GRO)	4890	50	ug/l							
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Surrogate 4-Bromofluorobenzene 108 " 100 108 65-135

Matrix Spike (3082919-MS1)

Source: T131855-01 Prepared & Analyzed: 08/29/13

C6-C12 (GRO)	5810	50	ug/l		74.0					
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Surrogate 4-Bromofluorobenzene 104 " 100 104 65-135

Matrix Spike Dup (3082919-MSD1)

Source: T131855-01 Prepared & Analyzed: 08/29/13

C6-C12 (GRO)	6080	50	ug/l		74.0		65-135	4.44	20	
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Surrogate 4-Bromofluorobenzene 109 " 100 109 65-135



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Lake Forest, California 92630
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949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

Metals by SM 3500 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD Limit	Notes
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Batch 3082921 - EPA 3010A

Blank (3082921-BLK1)

Ferrous Iron ND 0.100 mg/l

Prepared: 08/29/13 Analyzed: 09/03/13

Duplicate (3082921-DUP1)

Ferrous Iron 2.42 0.100 mg/l 2.50 3.01 200

Source: T131855-02 Prepared: 08/29/13 Analyzed: 09/03/13

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

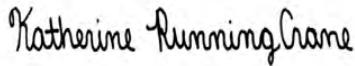
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3082926 - EPA 5030 GCMS

Blank (3082926-BLK1)	Prepared & Analyzed: 08/29/13									
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Katherine RunningCrane, Project Manager

Page 19 of 25

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	---------	-----------	-------

Batch 3082926 - EPA 5030 GCMS

Blank (3082926-BLK1)		Prepared & Analyzed: 08/29/13								
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
<i>Surrogate</i> 4-Bromofluorobenzene	7.84	"	8.00		98.0	83.5-119				
<i>Surrogate</i> Dibromofluoromethane	7.40	"	8.00		92.5	81-136				
<i>Surrogate</i> Toluene-d8	7.67	"	8.00		95.9	88.8-117				

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	---------	-----------	-------

Batch 3082926 - EPA 5030 GCMS

LCS (3082926-BS1)						
Prepared & Analyzed: 08/29/13						
Chlorobenzene	18.3	1.0	ug/l	20.0	91.4	75-125
1,1-Dichloroethene	17.8	1.0	"	20.0	89.2	75-125
Trichloroethene	17.3	1.0	"	20.0	86.7	75-125
Benzene	17.6	0.50	"	20.0	88.0	75-125
Toluene	17.6	0.50	"	20.0	88.0	75-125
<i>Surrogate</i> 4-Bromofluorobenzene	8.22		"	8.00	103	83.5-119
<i>Surrogate</i> Dibromofluoromethane	8.01		"	8.00	100	81-136
<i>Surrogate</i> Toluene-d8	7.88		"	8.00	98.5	88.8-117

Matrix Spike (3082926-MS1)						
Source: T131855-01 Prepared & Analyzed: 08/29/13						
Chlorobenzene	17.3	1.0	ug/l	20.0	ND	86.4
1,1-Dichloroethene	17.8	1.0	"	20.0	ND	88.8
Trichloroethene	16.3	1.0	"	20.0	ND	81.6
Benzene	22.1	0.50	"	20.0	3.78	91.4
Toluene	17.9	0.50	"	20.0	ND	89.5
<i>Surrogate</i> 4-Bromofluorobenzene	7.73		"	8.00	96.6	83.5-119
<i>Surrogate</i> Dibromofluoromethane	8.19		"	8.00	102	81-136
<i>Surrogate</i> Toluene-d8	7.86		"	8.00	98.2	88.8-117

Matrix Spike Dup (3082926-MSD1)						
Source: T131855-01 Prepared & Analyzed: 08/29/13						
Chlorobenzene	17.6	1.0	ug/l	20.0	ND	87.8
1,1-Dichloroethene	18.6	1.0	"	20.0	ND	93.0
Trichloroethene	16.7	1.0	"	20.0	ND	83.5
Benzene	21.5	0.50	"	20.0	3.78	88.8
Toluene	18.1	0.50	"	20.0	ND	90.6
<i>Surrogate</i> 4-Bromofluorobenzene	7.33		"	8.00	91.6	83.5-119
<i>Surrogate</i> Dibromofluoromethane	8.57		"	8.00	107	81-136
<i>Surrogate</i> Toluene-d8	7.77		"	8.00	97.1	88.8-117



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit	Notes
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Batch 3082920 - General Preparation

Duplicate (3082920-DUP1)	Source: T131855-02	Prepared: 08/29/13	Analyzed: 09/03/13
Total Alkalinity	400	20 mg/l	395

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

Anions by EPA Method 300.0 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3082918 - General Preparation

Blank (3082918-BLK1) Prepared: 08/29/13 Analyzed: 08/30/13

Sulfate as SO4	ND	10.0	mg/l	
Nitrate as NO3	ND	0.500	"	

LCS (3082918-BS1) Prepared & Analyzed: 08/29/13

Sulfate as SO4	10.2	10.0	mg/l	75-125
Nitrate as NO3	0.707	0.500	"	75-125

Matrix Spike (3082918-MS1) **Source: T131855-02** Prepared & Analyzed: 08/29/13

Sulfate as SO4	179	10.0	mg/l	231	75-125
Nitrate as NO3	0.749	0.500	"	ND	75-125

Matrix Spike Dup (3082918-MSD1) **Source: T131855-02** Prepared & Analyzed: 08/29/13

Sulfate as SO4	179	10.0	mg/l	231	75-125	0.317	20
Nitrate as NO3	0.775	0.500	"	ND	75-125	3.41	20



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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

RSK-175 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 3083007 - EPA 3810m Headspace

Blank (3083007-BLK1)

Methane ND 1.00 ug/l

Prepared & Analyzed: 08/30/13

Duplicate (3083007-DUP1)

Source: T131849-04

Methane 51.4 1.00 ug/l 62.3 19.3 20 Prepared & Analyzed: 08/30/13



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/04/13 14:22

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
 Address: 15375 Barranca Pkwy, Ste. K-101, Irvine, CA 92618
 Phone: (714) 508-0800 Fax: (714) 508-0880
 Project Manager: Jeremy Squire (714) 604-5836

Date: 08/28/13

Page: 1 OF 1

Project Name: CENCO

Collector: A. Wightman / J. Scott Client Project #: 1003-001-300

Batch #: T131855

EDF #: _____

Sample ID	Date Sampled	Time	Sample Type							Total # of containers	Comments/Preservative	Laboratory ID #
				TPHg (8015 M)	VOCs (8260 B)	Methane	Alkalinity	Nitrate, Sulfate (300)	Ferrous Iron			
LL-W1-082813		0855		X	X					6		01
LL-MW715-082813		1035		X	X	X	X	X	X	12		02
LL-W16B-082813		1330		X	X					6		03
LL-W16C-082813		1455		X	X					6		04
LL-TB-082813				X						2		05
Relinquished by: (signature)	Date / Time		Received by: (Sign / Date / Time)			Total # of containers			32	Notes		
<i>T-Ar</i>	<u>08/28/13 1600</u>		<u>Rece 08/28/13 16:00</u>									
Relinquished by: (signature)	Date / Time		Received by: (Sign / Date / Time)			Chain of Custody seals						
						Seals intact? Y/N/NA						
						Received good condition/cold			4.4			
Relinquished by: (signature)	Date / Time		Received by: (Sign / Date / Time)			Turn around time: Standard						

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # T131855

Client Name: MUREX

Project: CENCO

Received by: PATRICK

Date/Time Received: 8-28-13 / 16:00

Delivered by : Client SunStar Courier GSO FedEx Other _____

Total number of coolers received 0 Temp criteria = $6^{\circ}\text{C} > 0^{\circ}\text{C}$ (no frozen containers)

Temperature: cooler #1 4.6 $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = 4.4 $^{\circ}\text{C}$ corrected temperature

cooler #2 _____ $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = _____ $^{\circ}\text{C}$ corrected temperature

cooler #3 _____ $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = _____ $^{\circ}\text{C}$ corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. Yes No* N/A

Custody Seals Intact on Cooler/Sample Yes No* N/A

Sample Containers Intact Yes No*

Sample labels match COC ID's Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. Yes No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date _____

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

05 September 2013

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 08/29/13 15:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane

Katherine RunningCrane
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W14A_082913	T131867-01	Water	08/29/13 09:45	08/29/13 15:45
LL_MW710_082913	T131867-02	Water	08/29/13 12:05	08/29/13 15:45
LL_MW714_082913	T131867-03	Water	08/29/13 13:30	08/29/13 15:45
LL_MW705_082913	T131867-04	Water	08/29/13 14:40	08/29/13 15:45
LL_TB_082913	T131867-05	Water	08/29/13 00:00	08/29/13 15:45

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

LL_W14A_082913
T131867-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	1900	50	ug/l	1	3083008	08/30/13	08/30/13	EPA 8015C	
Surrogate: 4-Bromo fluoro benzene		107 %		65-135	"	"	"	"	"

Metals by SM 3500 Series Methods

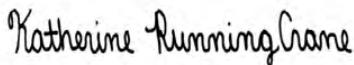
Ferrous Iron	7.84	0.100	mg/l	1	3083012	08/30/13	09/04/13	EPA6010/S M3500	
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3083004	08/30/13	08/30/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

Page 2 of 25

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

LL_W14A_082913
T131867-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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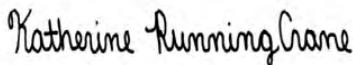
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloroethene	ND	1.0	ug/l	1	3083004	08/30/13	08/30/13	EPA 8260B	
cis-1,2-Dichloroethene	7.2	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	"
Isopropylbenzene	3.0	1.0	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"	"
Naphthalene	8.3	1.0	"	"	"	"	"	"	"
n-Propylbenzene	1.7	1.0	"	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
Trichloroethene	1.9	1.0	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	22	1.0	"	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"	"
Benzene	920	5.0	"	10	"	"	"	"	"
Toluene	ND	0.50	"	1	"	"	"	"	"
Ethylbenzene	18	0.50	"	"	"	"	"	"	"
m,p-Xylene	1.2	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

Page 3 of 25

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

LL_W14A_082913
T131867-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

o-Xylene	1.6	0.50	ug/l	1	3083004	08/30/13	08/30/13	EPA 8260B	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		95.8 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		98.1 %	88.8-117		"	"	"	"	"

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Total Alkalinity	640	20	mg/l	1	3083011	08/30/13	09/03/13	EPA 310.1	
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Anions by EPA Method 300.0

Sulfate as SO4	128	100	mg/l	10	3083009	08/30/13	08/30/13	EPA 300.0	
Nitrate as NO3	1.17	0.500	"	1	"	"	08/30/13	"	

RSK-175

Methane	165	1.00	ug/l	1	3083007	08/30/13	08/30/13	RSK-175	
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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

LL_MW710_082913
T131867-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

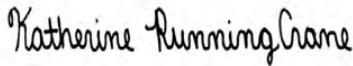
C6-C12 (GRO)	58	50	ug/l	1	3083008	08/30/13	08/30/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		149 %		65-135	"	"	"	"	S-04

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3083004	08/30/13	08/30/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	3.1	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	41	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	13	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	2.0	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

LL_MW710_082913
T131867-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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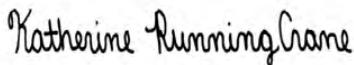
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	3083004	08/30/13	08/30/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	41	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	67	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	1.2	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

LL_MW710_082913
T131867-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	3083004	08/30/13	08/30/13	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		97.6 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		98.6 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

LL_MW714_082913
T131867-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

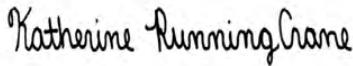
C6-C12 (GRO)	ND	50	ug/l	1	3083008	08/30/13	08/30/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		140 %		65-135	"	"	"	"	S-04

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3083004	08/30/13	08/30/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

LL_MW714_082913
T131867-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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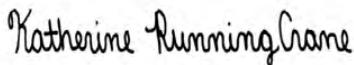
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	3083004	08/30/13	08/30/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	1.6	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	1.4	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

LL_MW714_082913
T131867-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	3083004	08/30/13	08/30/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	4.7	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		107 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		101 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		100 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

LL_MW705_082913
T131867-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	3083008	08/30/13	08/30/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		140 %		65-135	"	"	"	"	S-04

Metals by SM 3500 Series Methods

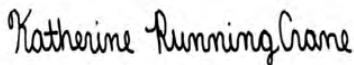
Ferrous Iron	2.08	0.100	mg/l	1	3083012	08/30/13	09/04/13	EPA6010/S M3500	
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3083004	08/30/13	08/30/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

LL_MW705_082913
T131867-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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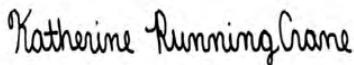
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloroethene	1.3	1.0	ug/l	1	3083004	08/30/13	08/30/13	EPA 8260B	
cis-1,2-Dichloroethene	8.2	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"	"
Benzene	0.52	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

LL_MW705_082913
T131867-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

m,p-Xylene	ND	1.0	ug/l	1	3083004	08/30/13	08/30/13	EPA 8260B	
o-Xylene	ND	0.50	"	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		103 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		102 %	88.8-117		"	"	"	"	"

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Total Alkalinity	640	20	mg/l	1	3083011	08/30/13	09/03/13	EPA 310.1	
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Anions by EPA Method 300.0

Sulfate as SO4	181	100	mg/l	10	3083009	08/30/13	08/30/13	EPA 300.0	
Nitrate as NO3	ND	0.500	"	1	"	"	08/30/13	"	

RSK-175

Methane	127	1.00	ug/l	1	3083007	08/30/13	08/30/13	RSK-175	
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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

LL_TB_082913
T131867-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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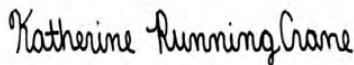
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3083004	08/30/13	08/30/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

Page 14 of 25

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

LL_TB_082913
T131867-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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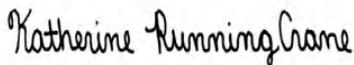
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	3083004	08/30/13	08/30/13	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

LL_TB_082913
T131867-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	3083004	08/30/13	08/30/13	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		105 %	83.5-119	"	"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	81-136	"	"	"	"	"	
Surrogate: Toluene-d8		99.2 %	88.8-117	"	"	"	"	"	

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3083008 - EPA 5030 GC

Blank (3083008-BLK1)

C6-C12 (GRO)	ND	50	ug/l				Prepared & Analyzed: 08/30/13
Surrogate 4-Bromofluorobenzene	124	"		100		124	65-135

LCS (3083008-BS1)

C6-C12 (GRO)	4750	50	ug/l				Prepared & Analyzed: 08/30/13
Surrogate 4-Bromofluorobenzene	110	"		100		110	65-135

Matrix Spike (3083008-MS1)

Source: T131867-01 Prepared & Analyzed: 08/30/13

C6-C12 (GRO)	7370	50	ug/l		1870		65-135
Surrogate 4-Bromofluorobenzene	91.1	"		100		91.1	65-135

Matrix Spike Dup (3083008-MSD1)

Source: T131867-01 Prepared & Analyzed: 08/30/13

C6-C12 (GRO)	7190	50	ug/l		1870		65-135	2.49	20
Surrogate 4-Bromofluorobenzene	98.9	"		100		98.9	65-135		



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15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

Metals by SM 3500 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD Limit	Notes
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Batch 3083012 - EPA 3010A

Blank (3083012-BLK1)

Ferrous Iron ND 0.100 mg/l

Prepared: 08/30/13 Analyzed: 09/04/13

Duplicate (3083012-DUP1)

Ferrous Iron 2.27 0.100 mg/l 2.08 8.55 200

Source: T131867-04

Prepared: 08/30/13 Analyzed: 09/04/13

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3083004 - EPA 5030 GCMS

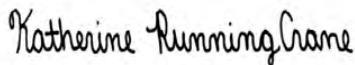
Blank (3083004-BLK1)

Prepared & Analyzed: 08/30/13

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3083004 - EPA 5030 GCMS

Blank (3083004-BLK1)		Prepared & Analyzed: 08/30/13								
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
<i>Surrogate 4-Bromofluorobenzene</i>	7.18	"	8.00		89.8	83.5-119				
<i>Surrogate Dibromofluoromethane</i>	6.42	"	8.00		80.2	81-136				S-GC
<i>Surrogate Toluene-d8</i>	7.84	"	8.00		98.0	88.8-117				

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 3083004 - EPA 5030 GCMS

LCS (3083004-BS1)						
Prepared & Analyzed: 08/30/13						
Chlorobenzene	18.2	1.0	ug/l	20.0	91.2	75-125
1,1-Dichloroethene	16.0	1.0	"	20.0	80.1	75-125
Trichloroethene	18.4	1.0	"	20.0	91.8	75-125
Benzene	18.0	0.50	"	20.0	89.8	75-125
Toluene	18.5	0.50	"	20.0	92.5	75-125
<i>Surrogate</i> 4-Bromofluorobenzene	8.27		"	8.00	103	83.5-119
<i>Surrogate</i> Dibromofluoromethane	7.85		"	8.00	98.1	81-136
<i>Surrogate</i> Toluene-d8	8.15		"	8.00	102	88.8-117

Matrix Spike (3083004-MS1)						
Source: T131867-01 Prepared & Analyzed: 08/30/13						
Chlorobenzene	18.4	1.0	ug/l	20.0	ND	91.8
1,1-Dichloroethene	17.5	1.0	"	20.0	ND	87.6
Trichloroethene	19.6	1.0	"	20.0	1.90	88.4
Benzene	542	0.50	"	20.0	920	NR
Toluene	21.8	0.50	"	20.0	ND	109
<i>Surrogate</i> 4-Bromofluorobenzene	8.29		"	8.00	104	83.5-119
<i>Surrogate</i> Dibromofluoromethane	8.27		"	8.00	103	81-136
<i>Surrogate</i> Toluene-d8	7.97		"	8.00	99.6	88.8-117

Matrix Spike Dup (3083004-MSD1)						
Source: T131867-01 Prepared & Analyzed: 08/30/13						
Chlorobenzene	18.8	1.0	ug/l	20.0	ND	94.0
1,1-Dichloroethene	17.5	1.0	"	20.0	ND	87.4
Trichloroethene	19.5	1.0	"	20.0	1.90	88.1
Benzene	542	0.50	"	20.0	920	NR
Toluene	21.3	0.50	"	20.0	ND	107
<i>Surrogate</i> 4-Bromofluorobenzene	8.62		"	8.00	108	83.5-119
<i>Surrogate</i> Dibromofluoromethane	7.94		"	8.00	99.2	81-136
<i>Surrogate</i> Toluene-d8	7.71		"	8.00	96.4	88.8-117



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit	Notes
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Batch 3083011 - General Preparation

Duplicate (3083011-DUP1)	Source: T131867-01	Prepared: 08/30/13	Analyzed: 09/03/13
Total Alkalinity	620	20 mg/l	640

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

Anions by EPA Method 300.0 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3083009 - General Preparation

Blank (3083009-BLK1)	Prepared & Analyzed: 08/30/13								
Sulfate as SO4	ND	10.0	mg/l						
Nitrate as NO3	ND	0.500	"						

LCS (3083009-BS1)	Prepared & Analyzed: 08/30/13						
Sulfate as SO4	21.9	10.0	mg/l	20.0	109	75-125	
Nitrate as NO3	1.08	0.500	"	1.00	108	75-125	

Matrix Spike (3083009-MS1)	Source: T131867-01	Prepared & Analyzed: 08/30/13						
Sulfate as SO4	139	10.0	mg/l	20.0	128	52.8	75-125	QM-4X
Nitrate as NO3	2.26	0.500	"	1.00	1.17	109	75-125	

Matrix Spike Dup (3083009-MSD1)	Source: T131867-01	Prepared & Analyzed: 08/30/13						
Sulfate as SO4	139	10.0	mg/l	20.0	128	56.0	75-125	0.460
Nitrate as NO3	2.27	0.500	"	1.00	1.17	110	75-125	0.265



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

RSK-175 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 3083007 - EPA 3810m Headspace

Blank (3083007-BLK1)

Methane ND 1.00 ug/l

Prepared & Analyzed: 08/30/13

Duplicate (3083007-DUP1)

Methane 51.4 1.00 ug/l 62.3 19.3 20

Source: T131849-04

Prepared & Analyzed: 08/30/13



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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/05/13 17:08

Notes and Definitions

S-GC	Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater than the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

**SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020**

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
Address: 15375 Barranca Pkwy, Ste. K-101, Irvine, CA 92618
Phone: (714) 508-0800 Fax: (714) 508-0880
Project Manager: Jeremy Squire (714) 604-5836

Date: 08/29/13

Page: _____ OF _____

Project Name: CENCO

Collector: A. Wightman / J. Scott

Client Project #: 1003-001-300

Batch #: T131867

EDF #:

Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)	Total # of containers	38	Notes
T Am	08/29/13 1545	R Mcd	8/29/13 1545	Chain of Custody seals	
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)	Seals intact? Y/N/NA		
			Received good condition/cold	2.6	
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)	Turn around time:	Standard	

Sample disposal Instructions: Disposal @ \$2.00 each

[Return to client](#)

Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # T131867

Client Name: MUREX

Project: CENCO

Received by: PATRICK

Date/Time Received: 8.29.13 / 15:45

Delivered by : Client SunStar Courier GSO FedEx Other _____

Total number of coolers received 0

Temp criteria = $6^{\circ}\text{C} > 0^{\circ}\text{C}$ (no frozen containers)

Temperature: cooler #1 2.8 $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = 2.6 $^{\circ}\text{C}$ corrected temperature

cooler #2 _____ $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = _____ $^{\circ}\text{C}$ corrected temperature

cooler #3 _____ $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = _____ $^{\circ}\text{C}$ corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. Yes No* N/A

Custody Seals Intact on Cooler/Sample Yes No* N/A

Sample Containers Intact Yes No*

Sample labels match COC ID's Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. Yes No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date SL 8.29.13

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

23 September 2013

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 08/30/13 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane

Katherine RunningCrane
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W12_083013_01	T131875-01	Water	08/30/13 08:50	08/30/13 15:30
LL_W12_083013_02	T131875-02	Water	08/30/13 08:55	08/30/13 15:30
LL_W706_083013	T131875-03	Water	08/30/13 13:25	08/30/13 15:30
LL_W707_083013	T131875-04	Water	08/30/13 14:35	08/30/13 15:30
LL_TB_083013	T131875-05	Water	08/30/13 00:00	08/30/13 15:30

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

LL_W12_083013_01
T131875-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

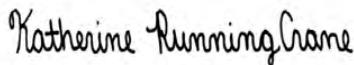
C6-C12 (GRO)	ND	50	ug/l	1	3090316	09/03/13	09/03/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		128 %		65-135	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090312	09/03/13	09/03/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	5.0	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Katherine RunningCrane, Project Manager

Page 2 of 25

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

LL_W12_083013_01
T131875-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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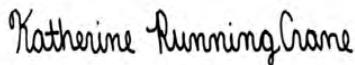
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	3090312	09/03/13	09/03/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	5.8	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

Page 3 of 25

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

LL_W12_083013_01
T131875-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	3090312	09/03/13	09/03/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		95.2 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		99.6 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

LL_W12_083013_02
T131875-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

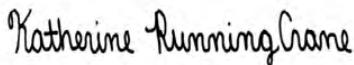
C6-C12 (GRO)	ND	50	ug/l	1	3090316	09/03/13	09/03/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		138 %		65-135	"	"	"	"	S-04

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090312	09/03/13	09/03/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	5.4	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

Page 5 of 25

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

LL_W12_083013_02
T131875-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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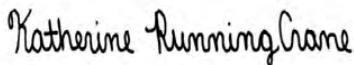
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	3090312	09/03/13	09/03/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	5.9	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

Page 6 of 25

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

LL_W12_083013_02
T131875-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	3090312	09/03/13	09/03/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		95.9 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		97.5 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

LL_W706_083013
T131875-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	110	50	ug/l	1	3090316	09/03/13	09/03/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		136 %		65-135	"	"	"	"	S-04

Metals by SM 3500 Series Methods

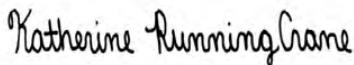
Ferrous Iron	1.24	0.100	mg/l	1	3090323	09/03/13	09/04/13	EPA6010/S M3500	
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090312	09/03/13	09/03/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

LL_W706_083013
T131875-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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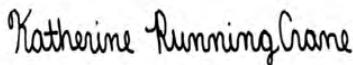
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloroethene	ND	1.0	ug/l	1	3090312	09/03/13	09/03/13	EPA 8260B	
cis-1,2-Dichloroethene	4.7	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
Vinyl chloride	2.1	1.0	"	"	"	"	"	"	"
Benzene	9.6	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

LL_W706_083013
T131875-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

m,p-Xylene	ND	1.0	ug/l	1	3090312	09/03/13	09/03/13	EPA 8260B	
o-Xylene	ND	0.50	"	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	5.6	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		110 %	83.5-119		"	"	"	"	"
Surrogate: Dibromofluoromethane		95.6 %	81-136		"	"	"	"	"
Surrogate: Toluene-d8		102 %	88.8-117		"	"	"	"	"

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Total Alkalinity	600	20	mg/l	1	3090325	09/03/13	09/03/13	EPA 310.1	
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Anions by EPA Method 300.0

Sulfate as SO4	82.6	20.0	mg/l	2	3090311	09/03/13	09/03/13	EPA 300.0	
Nitrate as NO3	ND	0.500	"	1	"	"	09/03/13	"	O-07

RSK-175

Methane	ND	1.00	ug/l	1	3092021	09/20/13	09/20/13	RSK-175	
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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

LL_W707_083013
T131875-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	2800	50	ug/l	1	3090316	09/03/13	09/03/13	EPA 8015C
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Surrogate: 4-Bromofluorobenzene

128 %

65-135

"

"

"

"

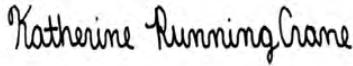
"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090312	09/03/13	09/03/13	EPA 8260B
Bromoform	ND	1.0	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	6.9	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	3.2	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

LL_W707_083013
T131875-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	3090312	09/03/13	09/03/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	7.5	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	26	1.0	"	"	"	"	"	"	
n-Propylbenzene	27	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	4.7	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	5.3	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	550	2.5	"	5	"	"	"	"	
Toluene	19	0.50	"	1	"	"	"	"	
Ethylbenzene	12	0.50	"	"	"	"	"	"	
m,p-Xylene	40	1.0	"	"	"	"	"	"	
o-Xylene	6.7	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

LL_W707_083013
T131875-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	3090312	09/03/13	09/03/13	EPA 8260B	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		116 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		99.5 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		99.4 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

LL_TB_083013
T131875-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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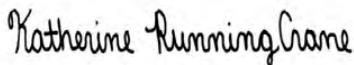
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090312	09/03/13	09/03/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

LL_TB_083013
T131875-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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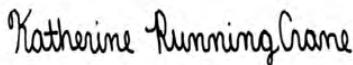
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	3090312	09/03/13	09/03/13	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

Page 15 of 25



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

LL_TB_083013
T131875-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	3090312	09/03/13	09/03/13	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	99.9 %	83.5-119		"	"	"	"	"	
Surrogate: Dibromofluoromethane	101 %	81-136		"	"	"	"	"	
Surrogate: Toluene-d8	97.5 %	88.8-117		"	"	"	"	"	

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3090316 - EPA 5030 GC

Blank (3090316-BLK1)

C6-C12 (GRO)	ND	50	ug/l							
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Surrogate 4-Bromofluorobenzene 123 " 100 123 65-135

LCS (3090316-BS1)

C6-C12 (GRO)	5030	50	ug/l	5520		91.2	75-125			
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Surrogate 4-Bromofluorobenzene 108 " 100 108 65-135

Matrix Spike (3090316-MS1)

Source: T131875-01 Prepared & Analyzed: 09/03/13

C6-C12 (GRO)	5050	50	ug/l	5520	ND	91.5	65-135			
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Surrogate 4-Bromofluorobenzene 110 " 100 110 65-135

Matrix Spike Dup (3090316-MSD1)

Source: T131875-01 Prepared & Analyzed: 09/03/13

C6-C12 (GRO)	5510	50	ug/l	5520	ND	99.8	65-135	8.68	20	
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Surrogate 4-Bromofluorobenzene 109 " 100 109 65-135



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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

Metals by SM 3500 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD Limit	Notes
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Batch 3090323 - EPA 3010A

Blank (3090323-BLK1)

Ferrous Iron ND 0.100 mg/l

Prepared: 09/03/13 Analyzed: 09/04/13

Duplicate (3090323-DUP1)

Ferrous Iron 1.32 0.100 mg/l 1.24 6.72 200

Source: T131875-03

Prepared: 09/03/13 Analyzed: 09/04/13

Murex
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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 3090312 - EPA 5030 GCMS

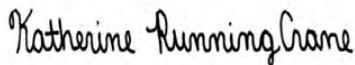
Blank (3090312-BLK1)

Prepared & Analyzed: 09/03/13

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

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Katherine RunningCrane, Project Manager

Page 19 of 25

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3090312 - EPA 5030 GCMS

Blank (3090312-BLK1)

Prepared & Analyzed: 09/03/13

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
<i>Surrogate 4-Bromofluorobenzene</i>	7.77	"	8.00		97.1	83.5-119				
<i>Surrogate Dibromofluoromethane</i>	6.38	"	8.00		79.8	81-136				S-GC
<i>Surrogate Toluene-d8</i>	7.81	"	8.00		97.6	88.8-117				

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3090312 - EPA 5030 GCMS

LCS (3090312-BS1)							Prepared & Analyzed: 09/03/13			
Chlorobenzene	18.3	1.0	ug/l	20.0		91.6	75-125			
1,1-Dichloroethene	17.1	1.0	"	20.0		85.5	75-125			
Trichloroethene	17.6	1.0	"	20.0		87.8	75-125			
Benzene	18.4	0.50	"	20.0		92.2	75-125			
Toluene	18.9	0.50	"	20.0		94.4	75-125			
<i>Surrogate</i> 4-Bromofluorobenzene	8.19		"	8.00		102	83.5-119			
<i>Surrogate</i> Dibromofluoromethane	8.21		"	8.00		103	81-136			
<i>Surrogate</i> Toluene-d8	7.68		"	8.00		96.0	88.8-117			

Matrix Spike (3090312-MS1)							Source: T131875-01 Prepared & Analyzed: 09/03/13			
Chlorobenzene	18.4	1.0	ug/l	20.0	ND	91.8	75-125			
1,1-Dichloroethene	17.2	1.0	"	20.0	ND	86.2	75-125			
Trichloroethene	17.3	1.0	"	20.0	ND	86.4	75-125			
Benzene	18.1	0.50	"	20.0	ND	90.5	75-125			
Toluene	18.7	0.50	"	20.0	ND	93.3	75-125			
<i>Surrogate</i> 4-Bromofluorobenzene	8.64		"	8.00		108	83.5-119			
<i>Surrogate</i> Dibromofluoromethane	8.14		"	8.00		102	81-136			
<i>Surrogate</i> Toluene-d8	7.87		"	8.00		98.4	88.8-117			

Matrix Spike Dup (3090312-MSD1)							Source: T131875-01 Prepared & Analyzed: 09/03/13			
Chlorobenzene	18.8	1.0	ug/l	20.0	ND	94.0	75-125	2.37	20	
1,1-Dichloroethene	17.1	1.0	"	20.0	ND	85.5	75-125	0.757	20	
Trichloroethene	17.4	1.0	"	20.0	ND	86.9	75-125	0.577	20	
Benzene	17.8	0.50	"	20.0	ND	88.8	75-125	1.84	20	
Toluene	18.6	0.50	"	20.0	ND	93.2	75-125	0.107	20	
<i>Surrogate</i> 4-Bromofluorobenzene	8.68		"	8.00		108	83.5-119			
<i>Surrogate</i> Dibromofluoromethane	8.05		"	8.00		101	81-136			
<i>Surrogate</i> Toluene-d8	7.63		"	8.00		95.4	88.8-117			



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit	Notes
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Batch 3090325 - General Preparation

Duplicate (3090325-DUP1)	Source: T131875-03	Prepared & Analyzed: 09/03/13
Total Alkalinity	595	20 mg/l



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15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

Anions by EPA Method 300.0 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3090311 - General Preparation

Blank (3090311-BLK1)

Sulfate as SO4	ND	10.0	mg/l
Nitrate as NO3	ND	0.500	"

Prepared & Analyzed: 09/03/13

LCS (3090311-BS1)

Sulfate as SO4	10.3	10.0	mg/l	10.0	103	75-125
Nitrate as NO3	0.543	0.500	"	0.500	109	75-125

Prepared & Analyzed: 09/03/13

LCS Dup (3090311-BSD1)

Sulfate as SO4	10.0	10.0	mg/l	10.0	100	75-125	3.06	20
Nitrate as NO3	0.528	0.500	"	0.500	106	75-125	2.80	20

Prepared & Analyzed: 09/03/13



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15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

RSK-175 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 3092021 - EPA 3810m Headspace

Blank (3092021-BLK1)

Methane ND 1.00 ug/l

Prepared & Analyzed: 09/20/13

Duplicate (3092021-DUP1)

Methane ND 1.00 ug/l ND 20

Source: T131875-03

Prepared & Analyzed: 09/20/13



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/23/13 13:51

Notes and Definitions

S-GC	Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
O-07	The sample was analyzed outside the EPA recommended holding time of 48 hours.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

**SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020**

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
Address: 15375 Barranca Pkwy, Ste. K-101, Irvine, CA 92618
Phone: (714) 508-0800 **Fax:** (714) 508-0880
Project Manager: Jeremy Squire (714) 604-5836

Date: 08/30/13

Page: 1 OF 1

Project Name: CENCO

Collector: A. Wightman / J. Scott Client Project #: 1003-001-300
Batch #: T131875 EDF #:

Sample ID	Date Sampled	Time	Sample Type											Total # of containers	Comments/Preservative	Laboratory ID #
				TPHg (8015 M)	VOCs (8260 B)	Methane	Alkalinity	Nitrate, Sulfate (300)	Ferrous Iron							
LL-W12-083013-01	08/30/13	0850	WATER	X	X									6		01
LL-W12-083013-02		0855		X	X									6		02
LL-MW706-083013		1325		X	X	X	X	XX						12		03
LL-MW707-083013		1435		XX										6		04
LL-TB-083013	—	—		X										2		05
Relinquished by: (signature)	Date / Time		Received by: (Sign / Date / Time)			Total # of containers			Notes							
T-A.W.S.	08/30/13 1530		Mk P 8/30/13 1530			32										
Relinquished by: (signature)	Date / Time		Received by: (Sign / Date / Time)			Chain of Custody seals			N							
						Seals intact? Y/N/NA			N/A							
						Received good condition/cold			Y			3.2				
Relinquished by: (signature)	Date / Time		Received by: (Sign / Date / Time)			Turn around time:			Standard							

Sample disposal Instructions: Disposal @ \$2.00 each **Return to client** **Pickup**

SAMPLE RECEIVING REVIEW SHEET

BATCH # T131875

Client Name: Murex

Project: Cenco

Received by: Patrick

Date/Time Received: 8/30/13 1530

Delivered by : Client SunStar Courier GSO FedEx Other _____

Total number of coolers received 1 Temp criteria = $6^{\circ}\text{C} > 0^{\circ}\text{C}$ (no frozen containers)

Temperature: cooler #1 3.4 °C +/- the CF (- 0.2°C) = 3.2 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. Yes No* N/A

Custody Seals Intact on Cooler/Sample Yes No* N/A

Sample Containers Intact Yes No*

Sample labels match COC ID's Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. Yes No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date DM 8/30/13

Comments:



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949.297.5027 Fax

17 September 2013

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 09/03/13 15:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane

Katherine RunningCrane
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
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949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/17/13 11:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W16A_090313	T131884-01	Water	09/03/13 11:50	09/03/13 15:45
LL_W4_090313_01	T131884-02	Water	09/03/13 14:20	09/03/13 15:45
LL_W4_090313_02	T131884-03	Water	09/03/13 14:30	09/03/13 15:45
LL_TB_090313	T131884-04	Water	09/03/13 00:00	09/03/13 15:45

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/17/13 11:42

LL_W16A_090313
T131884-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

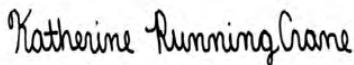
C6-C12 (GRO)	210	50	ug/l	1	3090408	09/04/13	09/05/13	EPA 8015C	
Surrogate: 4-Bromo fluoro benzene		149 %		65-135	"	"	"	"	S-04

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090407	09/04/13	09/05/13	EPA 8260B	
Bromo-chloromethane	ND	1.0	"	"	"	"	"	"	"
Bromo-dichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	2.0	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromo-chloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	4.3	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"

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Katherine RunningCrane, Project Manager

Page 2 of 18

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/17/13 11:42

LL_W16A_090313
T131884-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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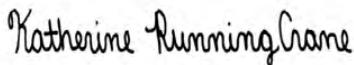
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	3090407	09/04/13	09/05/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	1.6	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	1.0	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	65	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/17/13 11:42

LL_W16A_090313
T131884-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	3090407	09/04/13	09/05/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		106 %	83.5-119		"	"	"	"	"
Surrogate: Dibromofluoromethane		105 %	81-136		"	"	"	"	"
Surrogate: Toluene-d8		100 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/17/13 11:42

LL_W4_090313_01
T131884-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

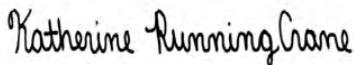
C6-C12 (GRO)	150	50	ug/l	1	3090408	09/04/13	09/05/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		148 %		65-135	"	"	"	"	S-04

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090407	09/04/13	09/05/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	3.1	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"

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Katherine RunningCrane, Project Manager

Page 5 of 18

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/17/13 11:42

LL_W4_090313_01
T131884-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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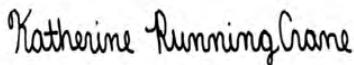
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	3090407	09/04/13	09/05/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	7.6	1.0	"	"	"	"	"	"	
Benzene	8.7	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/17/13 11:42

LL_W4_090313_01
T131884-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	3090407	09/04/13	09/05/13	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	1.7	1.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		112 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		105 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		96.2 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/17/13 11:42

LL_W4_090313_02
T131884-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

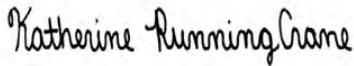
C6-C12 (GRO)	170	50	ug/l	1	3090408	09/04/13	09/05/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		150 %		65-135	"	"	"	"	S-04

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090407	09/04/13	09/05/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	3.2	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"

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Katherine RunningCrane, Project Manager

Page 8 of 18

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/17/13 11:42

LL_W4_090313_02
T131884-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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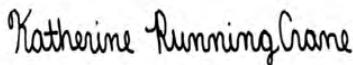
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	3090407	09/04/13	09/05/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	8.0	1.0	"	"	"	"	"	"	
Benzene	8.9	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

Page 9 of 18



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/17/13 11:42

**LL_W4_090313_02
T131884-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	3090407	09/04/13	09/05/13	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	1.7	1.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		114 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		111 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		94.5 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/17/13 11:42

LL_TB_090313
T131884-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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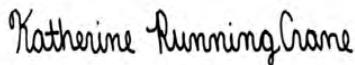
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090407	09/04/13	09/05/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Katherine RunningCrane, Project Manager

Page 11 of 18

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/17/13 11:42

LL_TB_090313
T131884-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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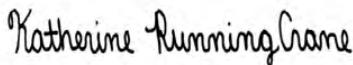
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	3090407	09/04/13	09/05/13	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Katherine RunningCrane, Project Manager

Page 12 of 18



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Lake Forest, California 92630
949.297.5020 Phone
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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/17/13 11:42

**LL_TB_090313
T131884-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Surrogate: 4-Bromofluorobenzene	95.8 %	83.5-119	3090407	09/04/13	09/05/13	EPA 8260B	
Surrogate: Dibromofluoromethane	106 %	81-136	"	"	"	"	
Surrogate: Toluene-d8	95.0 %	88.8-117	"	"	"	"	

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/17/13 11:42

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3090408 - EPA 5030 GC

Blank (3090408-BLK1)						Prepared: 09/04/13 Analyzed: 09/05/13				
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	125	"		100		125	65-135			
LCS (3090408-BS1)						Prepared: 09/04/13 Analyzed: 09/05/13				
C6-C12 (GRO)	4680	50	ug/l			75-125				
Surrogate 4-Bromofluorobenzene	94.4	"		100		94.4	65-135			
Matrix Spike (3090408-MS1)						Source: T131884-03	Prepared: 09/04/13 Analyzed: 09/05/13			
C6-C12 (GRO)	6050	50	ug/l			169	65-135			
Surrogate 4-Bromofluorobenzene	105	"		100		105	65-135			
Matrix Spike Dup (3090408-MSD1)						Source: T131884-03	Prepared: 09/04/13 Analyzed: 09/05/13			
C6-C12 (GRO)	6050	50	ug/l			169	65-135	0.116	20	
Surrogate 4-Bromofluorobenzene	106	"		100		106	65-135			

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/17/13 11:42

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3090407 - EPA 5030 GCMS

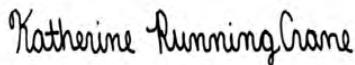
Blank (3090407-BLK1)

Prepared: 09/04/13 Analyzed: 09/05/13

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

Page 15 of 18

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/17/13 11:42

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3090407 - EPA 5030 GCMS

Blank (3090407-BLK1)

Prepared: 09/04/13 Analyzed: 09/05/13

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
<i>Surrogate 4-Bromofluorobenzene</i>	8.28	"	8.00		104	83.5-119				
<i>Surrogate Dibromofluoromethane</i>	7.92	"	8.00		99.0	81-136				
<i>Surrogate Toluene-d8</i>	7.93	"	8.00		99.1	88.8-117				

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/17/13 11:42

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 3090407 - EPA 5030 GCMS

LCS (3090407-BS1)		Prepared: 09/04/13 Analyzed: 09/05/13					
Chlorobenzene	20.7	1.0	ug/l	20.0	103	75-125	
1,1-Dichloroethene	19.2	1.0	"	20.0	96.2	75-125	
Trichloroethene	19.9	1.0	"	20.0	99.4	75-125	
Benzene	19.5	0.50	"	20.0	97.6	75-125	
Toluene	18.7	0.50	"	20.0	93.7	75-125	
<i>Surrogate</i> 4-Bromofluorobenzene	8.05		"	8.00	101	83.5-119	
<i>Surrogate</i> Dibromofluoromethane	9.04		"	8.00	113	81-136	
<i>Surrogate</i> Toluene-d8	7.38		"	8.00	92.2	88.8-117	

Matrix Spike (3090407-MS1)		Source: T131884-01 Prepared: 09/04/13 Analyzed: 09/05/13					
Chlorobenzene	19.9	1.0	ug/l	20.0	ND	99.6	75-125
1,1-Dichloroethene	18.4	1.0	"	20.0	ND	91.8	75-125
Trichloroethene	17.9	1.0	"	20.0	ND	89.4	75-125
Benzene	81.1	0.50	"	20.0	64.7	82.4	75-125
Toluene	19.2	0.50	"	20.0	ND	96.2	75-125
<i>Surrogate</i> 4-Bromofluorobenzene	8.36		"	8.00	104	83.5-119	
<i>Surrogate</i> Dibromofluoromethane	8.74		"	8.00	109	81-136	
<i>Surrogate</i> Toluene-d8	7.80		"	8.00	97.5	88.8-117	

Matrix Spike Dup (3090407-MSD1)		Source: T131884-01 Prepared: 09/04/13 Analyzed: 09/05/13					
Chlorobenzene	20.6	1.0	ug/l	20.0	ND	103	75-125 3.50 20
1,1-Dichloroethene	18.6	1.0	"	20.0	ND	92.8	75-125 1.08 20
Trichloroethene	18.4	1.0	"	20.0	ND	92.1	75-125 3.03 20
Benzene	75.3	0.50	"	20.0	64.7	53.3	75-125 7.41 20 QM-05
Toluene	19.6	0.50	"	20.0	ND	98.0	75-125 1.96 20
<i>Surrogate</i> 4-Bromofluorobenzene	8.53		"	8.00	107	83.5-119	
<i>Surrogate</i> Dibromofluoromethane	8.43		"	8.00	105	81-136	
<i>Surrogate</i> Toluene-d8	7.55		"	8.00	94.4	88.8-117	



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/17/13 11:42

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
 Address: 15375 Barranca Pkwy, Ste. K-101, Irvine, CA 92618
 Phone: (714) 508-0800 Fax: (714) 508-0880
 Project Manager: Jeremy Squire (714) 604-5836

Date: 09/03/13 Page: 1 OF 1
 Project Name: CENCO
 Collector: A. Wightman / J. Scott Client Project #: 1003-001-300
 Batch #: T131884 EDF #:

Sample ID	Date Sampled	Time	Sample Type	TPHg. (8015 M)	VOCs (8260 B)	Methane	Alkalinity	Nitrate, Sulfate (300)	Ferrous Iron	Total # of containers	Comments/Preservative	Laboratory ID #
LL-W16A_090313	09/03/13	1150	WATER	X X						6		01
LL-W4_090313-01		1420		X X						6		02
LL-W4_090313-02	▼	1430	▼	X X						6		03
LL-TB_090313	—	—	▼	X						2		04
<i>TAW</i>												
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)	Total # of containers	Notes								
<i>T.A.S.</i>	09/03/13 1545	<i>Refa Lee 09/03/13 1545</i>	20									
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)	Chain of Custody seals									
			Seals intact? Y/N/NA									
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)	Received good condition/cold									
			Turn around time: Standard									

Sample disposal Instructions: Disposal @ \$2.00 each

Return to client

Pickup

SAMPLE RECEIVING REVIEW SHEET

BATCH # 7131884

Client Name: MUREX

Project: CENCO

Received by: PATRICK

Date/Time Received: 9-3-13 / 15:45

Delivered by : Client SunStar Courier GSO FedEx Other _____

Total number of coolers received 0 Temp criteria = $6^{\circ}\text{C} > 0^{\circ}\text{C}$ (no frozen containers)

Temperature: cooler #1 2.5 $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = 2.3 $^{\circ}\text{C}$ corrected temperature

cooler #2 _____ $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = _____ $^{\circ}\text{C}$ corrected temperature

cooler #3 _____ $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = _____ $^{\circ}\text{C}$ corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. Yes No* N/A

Custody Seals Intact on Cooler/Sample Yes No* N/A

Sample Containers Intact Yes No*

Sample labels match COC ID's Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. Yes No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date SC 9-3-13

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

09 September 2013

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 09/04/13 16:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane

Katherine RunningCrane
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/09/13 16:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W15C_090413	T131893-01	Water	09/04/13 09:30	09/04/13 16:40
LL_W15B_090413	T131893-02	Water	09/04/13 10:55	09/04/13 16:40
LL_W106A_090413	T131893-03	Water	09/04/13 13:50	09/04/13 16:40
LL_W107A_090413	T131893-04	Water	09/04/13 15:10	09/04/13 16:40
LL_TB_090413	T131893-05	Water	09/04/13 00:00	09/04/13 16:40

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/09/13 16:47

LL_W15C_090413
T131893-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

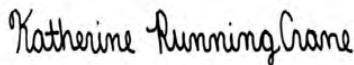
C6-C12 (GRO)	ND	50	ug/l	1	3090508	09/05/13	09/06/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		126 %		65-135	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090505	09/05/13	09/06/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Bromotoluene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	5.2	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/09/13 16:47

LL_W15C_090413
T131893-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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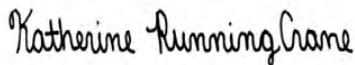
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	3090505	09/05/13	09/06/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	0.85	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/09/13 16:47

LL_W15C_090413
T131893-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	3090505	09/05/13	09/06/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	8.7	1.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		97.5 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		109 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		93.2 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/09/13 16:47

LL_W15B_090413
T131893-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

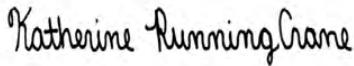
C6-C12 (GRO)	360	50	ug/l	1	3090508	09/05/13	09/06/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		129 %		65-135	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090505	09/05/13	09/06/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	1.6	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/09/13 16:47

LL_W15B_090413
T131893-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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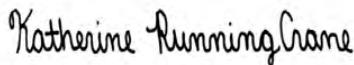
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	3090505	09/05/13	09/06/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	12	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	13	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	6.6	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/09/13 16:47

LL_W15B_090413
T131893-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	3090505	09/05/13	09/06/13	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	38	1.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		114 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		101 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		98.9 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/09/13 16:47

LL_W106A_090413
T131893-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	150	50	ug/l	1	3090508	09/05/13	09/06/13	EPA 8015C
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Surrogate: 4-Bromofluorobenzene

104 %

65-135

"

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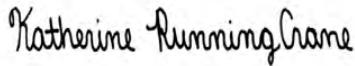
"

"

"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090505	09/05/13	09/06/13	EPA 8260B
Bromoform	ND	1.0	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"



Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/09/13 16:47

LL_W106A_090413
T131893-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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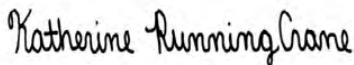
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	3090505	09/05/13	09/06/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	5.9	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	4.1	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	1.1	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/09/13 16:47

LL_W106A_090413
T131893-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	3090505	09/05/13	09/06/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		112 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		105 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		95.6 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/09/13 16:47

LL_W107A_090413
T131893-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	1100	50	ug/l	1	3090508	09/05/13	09/06/13	EPA 8015C
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Surrogate: 4-Bromofluorobenzene

120 %

65-135

"

"

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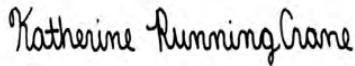
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090505	09/05/13	09/06/13	EPA 8260B
Bromoform	ND	1.0	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	3.0	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	17	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	3.5	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	1.8	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/09/13 16:47

LL_W107A_090413
T131893-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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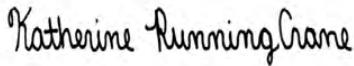
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	3090505	09/05/13	09/06/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	14	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	15	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	1.4	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	3.1	0.50	"	"	"	"	"	"	
Toluene	0.77	0.50	"	"	"	"	"	"	
Ethylbenzene	1.9	0.50	"	"	"	"	"	"	
m,p-Xylene	20	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

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25712 Commercentre Drive
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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/09/13 16:47

LL_W107A_090413
T131893-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	3090505	09/05/13	09/06/13	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		116 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		107 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		95.6 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/09/13 16:47

LL_TB_090413
T131893-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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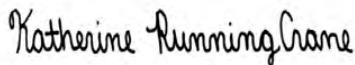
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090505	09/05/13	09/06/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/09/13 16:47

LL_TB_090413
T131893-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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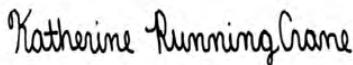
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	3090505	09/05/13	09/06/13	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/09/13 16:47

LL_TB_090413
T131893-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

<i>Surrogate: 4-Bromofluorobenzene</i>	102 %	83.5-119	3090505	09/05/13	09/06/13	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>	106 %	81-136	"	"	"	"	
<i>Surrogate: Toluene-d8</i>	93.4 %	88.8-117	"	"	"	"	

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/09/13 16:47

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3090508 - EPA 5030 GC

Blank (3090508-BLK1)						Prepared: 09/05/13 Analyzed: 09/06/13				
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	125	"		100		125	65-135			
LCS (3090508-BS1)						Prepared: 09/05/13 Analyzed: 09/06/13				
C6-C12 (GRO)	5200	50	ug/l			75-125				
Surrogate 4-Bromofluorobenzene	88.5	"		100		88.5	65-135			
Matrix Spike (3090508-MS1)						Source: T131893-01	Prepared: 09/05/13 Analyzed: 09/06/13			
C6-C12 (GRO)	4720	50	ug/l			18.4	65-135			
Surrogate 4-Bromofluorobenzene	98.4	"		100		98.4	65-135			
Matrix Spike Dup (3090508-MSD1)						Source: T131893-01	Prepared: 09/05/13 Analyzed: 09/06/13			
C6-C12 (GRO)	5090	50	ug/l			18.4	65-135	7.46	20	
Surrogate 4-Bromofluorobenzene	108	"		100		108	65-135			

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/09/13 16:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

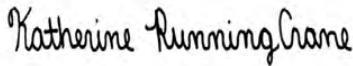
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3090505 - EPA 5030 GCMS

Blank (3090505-BLK1)	Prepared: 09/05/13 Analyzed: 09/06/13									
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/09/13 16:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3090505 - EPA 5030 GCMS

Blank (3090505-BLK1)

Prepared: 09/05/13 Analyzed: 09/06/13

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
<i>Surrogate 4-Bromofluorobenzene</i>	7.86	"	8.00		98.2	83.5-119				
<i>Surrogate Dibromofluoromethane</i>	8.63	"	8.00		108	81-136				
<i>Surrogate Toluene-d8</i>	7.58	"	8.00		94.8	88.8-117				

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/09/13 16:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 3090505 - EPA 5030 GCMS

LCS (3090505-BS1)		Prepared: 09/05/13 Analyzed: 09/06/13					
Chlorobenzene	20.2	1.0	ug/l	20.0	101	75-125	
1,1-Dichloroethene	17.5	1.0	"	20.0	87.4	75-125	
Trichloroethene	19.3	1.0	"	20.0	96.4	75-125	
Benzene	18.5	0.50	"	20.0	92.6	75-125	
Toluene	18.8	0.50	"	20.0	93.8	75-125	
Surrogate 4-Bromofluorobenzene	8.37		"	8.00	105	83.5-119	
Surrogate Dibromofluoromethane	7.94		"	8.00	99.2	81-136	
Surrogate Toluene-d8	7.79		"	8.00	97.4	88.8-117	

Matrix Spike (3090505-MS1)		Source: T131893-01 Prepared: 09/05/13 Analyzed: 09/06/13					
Chlorobenzene	17.0	1.0	ug/l	20.0	ND	85.0	75-125
1,1-Dichloroethene	14.4	1.0	"	20.0	ND	72.2	75-125
Trichloroethene	14.8	1.0	"	20.0	ND	73.8	75-125
Benzene	16.9	0.50	"	20.0	0.850	80.2	75-125
Toluene	16.6	0.50	"	20.0	ND	83.2	75-125
Surrogate 4-Bromofluorobenzene	7.97		"	8.00	99.6	83.5-119	
Surrogate Dibromofluoromethane	9.92		"	8.00	124	81-136	
Surrogate Toluene-d8	7.26		"	8.00	90.8	88.8-117	

Matrix Spike Dup (3090505-MSD1)		Source: T131893-01 Prepared: 09/05/13 Analyzed: 09/06/13					
Chlorobenzene	17.4	1.0	ug/l	20.0	ND	87.1	75-125
1,1-Dichloroethene	12.7	1.0	"	20.0	ND	63.6	75-125
Trichloroethene	15.5	1.0	"	20.0	ND	77.4	75-125
Benzene	17.6	0.50	"	20.0	0.850	83.7	75-125
Toluene	17.0	0.50	"	20.0	ND	84.8	75-125
Surrogate 4-Bromofluorobenzene	7.97		"	8.00	99.6	83.5-119	
Surrogate Dibromofluoromethane	8.68		"	8.00	108	81-136	
Surrogate Toluene-d8	7.81		"	8.00	97.6	88.8-117	



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/09/13 16:47

Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

**SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020**

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
Address: 15375 Barranca Pkwy, Ste. K-101, Irvine, CA 92618
Phone: (714) 508-0800 Fax: (714) 508-0880
Project Manager: Jeremy Squire (714) 604-5836

Date: 09 04 13

Page: OF

Project Name: CENCO

Collector: A. Wightman / J. Scott

Client Project #: 1003-001-300

Batch #: T131893

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)	Methane	Alkalinity	Nitrate, Sulfate (300)	Ferrous Iron	Total # of containers	Comments/Preservative	Laboratory ID #
LL-W15C-090413	09/04/13	0930	WATER	X X						6		01
LL-W15B-090413		1055		X X						6		02
LL-MW106A-090413		1350		X X						6		03
LL-MW107A-090413	▼	1510		X X						6		04
LL-TB-090413	—	—		X						2		05
<i>TAW</i>												
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)	Total # of containers	26	Notes							
<i>T.A.L.</i>	09/04/13 16:40	<i>J.D. 9/4/13 16:40</i>	Chain of Custody seals	N								
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)	Seals intact? Y/N/NA	N/A								
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)	Received good condition/cold	Y								
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)	Turn around time:	Standard	3.2°							

Sample disposal Instructions: Disposal @ \$2.00 each

[Return to client](#)

Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # T131893

Client Name: Murex

Project: Cenco

Received by: Patrick

Date/Time Received: 9/4/13 1640

Delivered by : Client SunStar Courier GSO FedEx Other

Total number of coolers received 1

Temp criteria = $6^{\circ}\text{C} > 0^{\circ}\text{C}$ (no frozen containers)

Temperature: cooler #1 3.4 $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = 3.2 $^{\circ}\text{C}$ corrected temperature

cooler #2 _____ $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = _____ $^{\circ}\text{C}$ corrected temperature

cooler #3 _____ $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = _____ $^{\circ}\text{C}$ corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. Yes No* N/A

Custody Seals Intact on Cooler/Sample Yes No* N/A

Sample Containers Intact Yes No*

Sample labels match COC ID's Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. Yes No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date DM 9/4/13

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

11 September 2013

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 09/05/13 16:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane

Katherine RunningCrane
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/13 11:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W10_090513	T131908-01	Water	09/05/13 08:55	09/05/13 16:25
LL_MW503B_090513	T131908-02	Water	09/05/13 10:40	09/05/13 16:25
LL_MW709_090513_01	T131908-03	Water	09/05/13 13:25	09/05/13 16:25
LL_MW709_090513_02	T131908-04	Water	09/05/13 13:30	09/05/13 16:25
LL_TB_090513	T131908-05	Water	09/05/13 00:00	09/05/13 16:25

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/13 11:28

LL_W10_090513
T131908-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

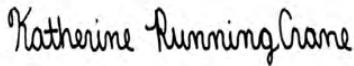
C6-C12 (GRO)	8500	50	ug/l	1	3090603	09/06/13	09/09/13	EPA 8015C	
Surrogate: 4-Bromo fluoro benzene		84.1 %		65-135	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090601	09/06/13	09/07/13	EPA 8260B	
Bromo-chloromethane	ND	1.0	"	"	"	"	"	"	"
Bromo-dichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	1.4	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	2.5	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromo-chloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	0.92	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Katherine RunningCrane, Project Manager

Page 2 of 21

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/13 11:28

LL_W10_090513
T131908-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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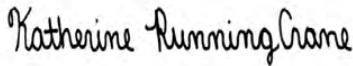
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	3090601	09/06/13	09/07/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	18	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	61	1.0	"	"	"	"	"	"	
n-Propylbenzene	25	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	4.2	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	19	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	3900	25	"	50	"	"	"	"	
Toluene	7.7	0.50	"	1	"	"	"	"	
Ethylbenzene	77	0.50	"	"	"	"	"	"	
m,p-Xylene	71	1.0	"	"	"	"	"	"	
o-Xylene	3.1	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

Page 3 of 21

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/13 11:28

LL_W10_090513
T131908-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	3090601	09/06/13	09/07/13	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		97.4 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		115 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		98.2 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/13 11:28

LL_MW503B_090513
T131908-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

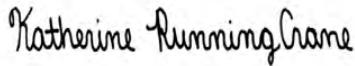
C6-C12 (GRO)	4600	50	ug/l	1	3090603	09/06/13	09/09/13	EPA 8015C
Surrogate: 4-Bromofluorobenzene		89.8 %		65-135	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090601	09/06/13	09/07/13	EPA 8260B
Bromoform	ND	1.0	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	2.0	1.0	"	"	"	"	"	"
sec-Butylbenzene	9.7	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	2.2	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Katherine RunningCrane, Project Manager

Page 5 of 21

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/13 11:28

LL_MW503B_090513
T131908-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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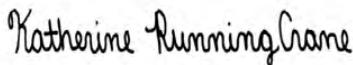
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	3090601	09/06/13	09/07/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	12	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	42	1.0	"	"	"	"	"	"	
n-Propylbenzene	27	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	25	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	87	1.0	"	"	"	"	"	"	
Vinyl chloride	2.1	1.0	"	"	"	"	"	"	
Benzene	730	5.0	"	10	"	"	"	"	
Toluene	46	0.50	"	1	"	"	"	"	
Ethylbenzene	140	5.0	"	10	"	"	"	"	
m,p-Xylene	370	10	"	"	"	"	"	"	
o-Xylene	13	0.50	"	1	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Katherine RunningCrane, Project Manager

Page 6 of 21

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/13 11:28

LL_MW503B_090513
T131908-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	3090601	09/06/13	09/07/13	EPA 8260B	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		93.6 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		113 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		99.8 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/13 11:28

LL_MW709_090513_01
T131908-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	180	50	ug/l	1	3090603	09/06/13	09/09/13	EPA 8015C
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Surrogate: 4-Bromofluorobenzene

120 %

65-135

"

"

"

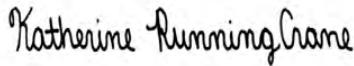
"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090601	09/06/13	09/09/13	EPA 8260B
Bromoform	ND	1.0	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

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Katherine RunningCrane, Project Manager

Page 8 of 21

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/13 11:28

LL_MW709_090513_01
T131908-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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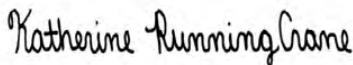
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	3090601	09/06/13	09/09/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	3.8	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	2.8	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	3.0	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

Page 9 of 21



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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/13 11:28

LL_MW709_090513_01
T131908-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	3090601	09/06/13	09/09/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		116 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		105 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		100 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/13 11:28

LL_MW709_090513_02
T131908-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	170	50	ug/l	1	3090603	09/06/13	09/09/13	EPA 8015C
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Surrogate: 4-Bromofluorobenzene

124 %

65-135

"

"

"

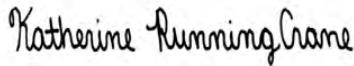
"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090601	09/06/13	09/09/13	EPA 8260B
Bromoform	ND	1.0	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/13 11:28

LL_MW709_090513_02
T131908-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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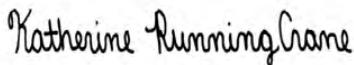
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	3090601	09/06/13	09/09/13	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	"
Isopropylbenzene	4.5	1.0	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"	"
n-Propylbenzene	3.1	1.0	"	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"	"
Benzene	2.6	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	"

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/13 11:28

LL_MW709_090513_02
T131908-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	3090601	09/06/13	09/09/13	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		117 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		103 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		99.6 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/13 11:28

LL_TB_090513
T131908-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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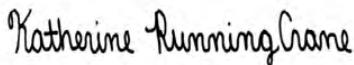
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090601	09/06/13	09/09/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/13 11:28

LL_TB_090513
T131908-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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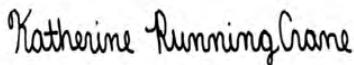
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	3090601	09/06/13	09/09/13	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/13 11:28

LL_TB_090513
T131908-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	3090601	09/06/13	09/09/13	EPA 8260B	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	83.5-119	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		101 %	81-136	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	88.8-117	"	"	"	"	"	



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/13 11:28

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3090603 - EPA 5030 GC

Blank (3090603-BLK1)		Prepared: 09/06/13 Analyzed: 09/09/13								
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	114	"		100		114	65-135			
LCS (3090603-BS1)		Prepared: 09/06/13 Analyzed: 09/09/13								
C6-C12 (GRO)	5640	50	ug/l			75-125				
Surrogate 4-Bromofluorobenzene	98.1	"		100		98.1	65-135			
Matrix Spike (3090603-MS1)		Source: T131908-01 Prepared: 09/06/13 Analyzed: 09/09/13								
C6-C12 (GRO)	13200	50	ug/l		8510	65-135				
Surrogate 4-Bromofluorobenzene	80.5	"		100		80.5	65-135			
Matrix Spike Dup (3090603-MSD1)		Source: T131908-01 Prepared: 09/06/13 Analyzed: 09/09/13								
C6-C12 (GRO)	14400	50	ug/l		8510	65-135	8.23	20		
Surrogate 4-Bromofluorobenzene	83.2	"		100		83.2	65-135			

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/13 11:28

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3090601 - EPA 5030 GCMS

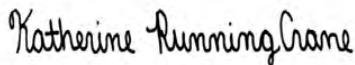
Blank (3090601-BLK1)

Prepared: 09/06/13 Analyzed: 09/07/13

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Katherine RunningCrane, Project Manager

Page 18 of 21

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/13 11:28

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3090601 - EPA 5030 GCMS

Blank (3090601-BLK1) Prepared: 09/06/13 Analyzed: 09/07/13

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
<i>Surrogate 4-Bromofluorobenzene</i>	7.44	"	8.00		93.0	83.5-119				
<i>Surrogate Dibromofluoromethane</i>	9.01	"	8.00		113	81-136				
<i>Surrogate Toluene-d8</i>	7.96	"	8.00		99.5	88.8-117				

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/13 11:28

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 3090601 - EPA 5030 GCMS

LCS (3090601-BS1)		Prepared: 09/06/13 Analyzed: 09/09/13					
Chlorobenzene	19.0	1.0	ug/l	20.0	94.8	75-125	
1,1-Dichloroethene	16.3	1.0	"	20.0	81.7	75-125	
Trichloroethene	17.9	1.0	"	20.0	89.6	75-125	
Benzene	17.8	0.50	"	20.0	88.8	75-125	
Toluene	18.0	0.50	"	20.0	90.0	75-125	
<i>Surrogate</i> 4-Bromofluorobenzene	8.30		"	8.00	104	83.5-119	
<i>Surrogate</i> Dibromofluoromethane	7.85		"	8.00	98.1	81-136	
<i>Surrogate</i> Toluene-d8	7.87		"	8.00	98.4	88.8-117	

Matrix Spike (3090601-MS1)		Source: T131908-01 Prepared: 09/06/13 Analyzed: 09/09/13					
Chlorobenzene	19.0	1.0	ug/l	20.0	ND	94.8	75-125
1,1-Dichloroethene	17.9	1.0	"	20.0	ND	89.5	75-125
Trichloroethene	17.6	1.0	"	20.0	ND	88.1	75-125
Benzene	997	0.50	"	20.0	3860	NR	75-125
Toluene	25.2	0.50	"	20.0	7.71	87.6	75-125
<i>Surrogate</i> 4-Bromofluorobenzene	8.46		"	8.00	106	83.5-119	
<i>Surrogate</i> Dibromofluoromethane	8.45		"	8.00	106	81-136	
<i>Surrogate</i> Toluene-d8	7.81		"	8.00	97.6	88.8-117	

Matrix Spike Dup (3090601-MSD1)		Source: T131908-01 Prepared: 09/06/13 Analyzed: 09/09/13					
Chlorobenzene	19.0	1.0	ug/l	20.0	ND	94.8	75-125 0.105 20
1,1-Dichloroethene	17.0	1.0	"	20.0	ND	85.0	75-125 5.22 20
Trichloroethene	17.9	1.0	"	20.0	ND	89.6	75-125 1.69 20
Benzene	1090	0.50	"	20.0	3860	NR	75-125 9.20 20 QM-4X
Toluene	24.6	0.50	"	20.0	7.71	84.6	75-125 2.41 20
<i>Surrogate</i> 4-Bromofluorobenzene	9.06		"	8.00	113	83.5-119	
<i>Surrogate</i> Dibromofluoromethane	8.38		"	8.00	105	81-136	
<i>Surrogate</i> Toluene-d8	8.14		"	8.00	102	88.8-117	



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Murex
15375 Barranca Parkway, Suite K-101
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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/11/13 11:28

Notes and Definitions

- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

25712 Commercentre Dr

Lake Forest, CA 92630

949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.

Address: 15375 Barranca Pkwy, Ste. K-101, Irvine, CA 92618

Phone: (714) 508-0800 Fax: (714) 508-0880

Project Manager: Jeremy Squire (714) 604-5836

Date: 09/05/13

Page: 1 OF 1

Project Name: CENCO

Collector: A. Wightman / J. Scott Client Project #: 1003-001-300

Batch #: T131908 EDF #:

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)	Methane	Alkalinity	Nitrate, Sulfate (300)	Ferrous Iron	Total # of containers	Comments/Preservative	Laboratory ID #	
LL-W10-090513	09/05/13	0855	WATER	X	X					6		01	
LL-MW503B-090513		1040		X	X					6		02	
LL-MW709-090513-01		1325		X	X					6		03	
LL-MW709-090513-02		1330		X	X					6		04	
LL-TB-090513	—	—			X					2		05	
Relinquished by: (signature)	Date / Time			Received by: (Sign / Date / Time)			Total # of containers			26	Notes		
T.A.W	09/05/13 1625			T.A.W 09/05/13 1625								Chain of Custody seals	✓
Relinquished by: (signature)	Date / Time			Received by: (Sign / Date / Time)			Seals intact? Y/N/NA			N/A			
							Received good condition/cold			Y			1.4
Relinquished by: (signature)	Date / Time			Received by: (Sign / Date / Time)			Turn around time:			Standard			

Sample disposal Instructions: Disposal @ \$2.00 each

Return to client

Pickup

SAMPLE RECEIVING REVIEW SHEET

BATCH # 7131908

Client Name: MUREX

Project: CENCO

Received by: Dan

Date/Time Received: 9.5.13 / 16:25

Delivered by : Client SunStar Courier GSO FedEx Other _____

Total number of coolers received 0 Temp criteria = $6^{\circ}\text{C} > 0^{\circ}\text{C}$ (no frozen containers)

Temperature: cooler #1 1.6 $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = 1.4 $^{\circ}\text{C}$ corrected temperature

cooler #2 _____ $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = _____ $^{\circ}\text{C}$ corrected temperature

cooler #3 _____ $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = _____ $^{\circ}\text{C}$ corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. Yes No* N/A

Custody Seals Intact on Cooler/Sample Yes No* N/A

Sample Containers Intact Yes No*

Sample labels match COC ID's Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. Yes No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date SL 9.5.13

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
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13 September 2013

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 09/06/13 15:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane

Katherine RunningCrane
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_MW702_090613	T131926-01	Water	09/06/13 09:05	09/06/13 15:55
LL_MW704_090613	T131926-02	Water	09/06/13 10:30	09/06/13 15:55
LL_MW712_090613_01	T131926-03	Water	09/06/13 13:30	09/06/13 15:55
LL_MW712_090613_02	T131926-04	Water	09/06/13 13:35	09/06/13 15:55
LL_MW713_090613	T131926-05	Water	09/06/13 15:05	09/06/13 15:55
LL_TB_090613	T131926-06	Water	09/06/13 00:00	09/06/13 15:55

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

LL_MW702_090613
T131926-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	730	50	ug/l	1	3090919	09/09/13	09/10/13	EPA 8015C	
Surrogate: 4-Bromo fluorobenzene		120 %		65-135	"	"	"	"	"

Metals by SM 3500 Series Methods

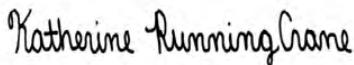
Ferrous Iron	3.16	0.100	mg/l	1	3090923	09/09/13	09/09/13	EPA6010/S M3500	
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090916	09/09/13	09/09/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	1.7	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	1.1	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	1.8	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	1.7	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

Page 2 of 28

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

LL_MW702_090613
T131926-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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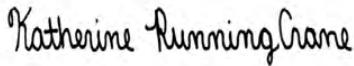
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloroethene	ND	1.0	ug/l	1	3090916	09/09/13	09/09/13	EPA 8260B	
cis-1,2-Dichloroethene	1.1	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	5.4	1.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	"
Isopropylbenzene	1.9	1.0	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"	"
n-Propylbenzene	1.6	1.0	"	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"	"
Benzene	2.7	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

Page 3 of 28

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

LL_MW702_090613
T131926-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

m,p-Xylene	ND	1.0	ug/l	1	3090916	09/09/13	09/09/13	EPA 8260B	
o-Xylene	ND	0.50	"	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		99.1 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		122 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		95.5 %	88.8-117		"	"	"	"	"

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Total Alkalinity	800	20	mg/l	1	3090922	09/09/13	09/09/13	EPA 310.1	
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Anions by EPA Method 300.0

Sulfate as SO4	27.0	10.0	mg/l	1	3090921	09/09/13	09/09/13	EPA 300.0	
Nitrate as NO3	ND	0.500	"	"	"	"	"	"	O-07

RSK-175

Methane	558	1.00	ug/l	1	3090917	09/09/13	09/09/13	RSK-175	
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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

LL_MW704_090613
T131926-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

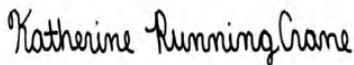
C6-C12 (GRO)	8900	50	ug/l	1	3090919	09/09/13	09/10/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		85.9 %		65-135	"	"	"	"	

Metals by SM 3500 Series Methods

Ferrous Iron	8.15	0.100	mg/l	1	3090923	09/09/13	09/09/13	EPA6010/S M3500	
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090916	09/09/13	09/10/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	3.8	1.0	"	"	"	"	"	"	
sec-Butylbenzene	5.9	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	1.1	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	9.6	0.50	"	"	"	"	"	"	



Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

LL_MW704_090613
T131926-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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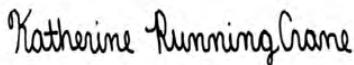
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloroethene	ND	1.0	ug/l	1	3090916	09/09/13	09/10/13	EPA 8260B	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	59	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	7.1	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	25	1.0	"	"	"	"	"	"	
n-Propylbenzene	53	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	120	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	460	5.0	"	5	"	"	"	"	
Vinyl chloride	ND	1.0	"	1	"	"	"	"	
Benzene	860	5.0	"	10	"	"	"	"	
Toluene	14	0.50	"	1	"	"	"	"	
Ethylbenzene	600	2.5	"	5	"	"	"	"	
m,p-Xylene	810	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

LL_MW704_090613
T131926-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

o-Xylene	19	0.50	ug/l	1	3090916	09/09/13	09/10/13	EPA 8260B	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	250	5.0	"	5	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	1	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		91.6 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		112 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		96.6 %	88.8-117		"	"	"	"	"

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Total Alkalinity	790	20	mg/l	1	3090922	09/09/13	09/09/13	EPA 310.1	
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Anions by EPA Method 300.0

Sulfate as SO4	ND	10.0	mg/l	1	3090921	09/09/13	09/09/13	EPA 300.0	
Nitrate as NO3	ND	0.500	"	"	"	"	"	"	O-07

RSK-175

Methane	1150	1.00	ug/l	1	3090917	09/09/13	09/09/13	RSK-175	
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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

LL_MW712_090613_01
T131926-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	2400	50	ug/l	1	3090919	09/09/13	09/10/13	EPA 8015C
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Surrogate: 4-Bromofluorobenzene

104 %

65-135

"

"

"

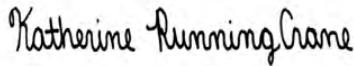
"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090916	09/09/13	09/10/13	EPA 8260B
Bromoform	ND	1.0	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	2.8	1.0	"	"	"	"	"	"
sec-Butylbenzene	3.2	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	2.5	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

LL_MW712_090613_01
T131926-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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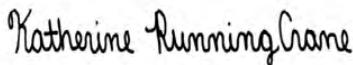
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	3090916	09/09/13	09/10/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	15	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	1.9	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	4.3	1.0	"	"	"	"	"	"	
n-Propylbenzene	13	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	3.2	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	6.8	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	230	2.5	"	5	"	"	"	"	
Toluene	14	0.50	"	1	"	"	"	"	
Ethylbenzene	8.3	0.50	"	"	"	"	"	"	
m,p-Xylene	29	1.0	"	"	"	"	"	"	
o-Xylene	6.7	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

LL_MW712_090613_01
T131926-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	3090916	09/09/13	09/10/13	EPA 8260B	
Methyl tert-butyl ether	9.9	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		98.5 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		114 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		101 %	88.8-117		"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

LL_MW712_090613_02
T131926-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

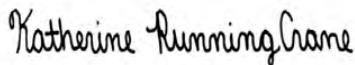
C6-C12 (GRO)	3200	50	ug/l	1	3090919	09/09/13	09/10/13	EPA 8015C
Surrogate: 4-Bromofluorobenzene		109 %		65-135	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090916	09/09/13	09/10/13	EPA 8260B
Bromoform	ND	1.0	"	"	"	"	"	"
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	3.2	1.0	"	"	"	"	"	"
sec-Butylbenzene	3.8	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	2.7	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

LL_MW712_090613_02
T131926-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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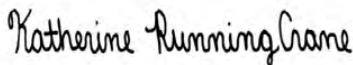
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	3090916	09/09/13	09/10/13	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	18	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	2.3	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	4.3	1.0	"	"	"	"	"	"	
n-Propylbenzene	15	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	3.7	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	7.8	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	240	2.5	"	5	"	"	"	"	
Toluene	15	0.50	"	1	"	"	"	"	
Ethylbenzene	9.8	0.50	"	"	"	"	"	"	
m,p-Xylene	34	1.0	"	"	"	"	"	"	
o-Xylene	8.1	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

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25712 Commercentre Drive
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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

LL_MW712_090613_02
T131926-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	3090916	09/09/13	09/10/13	EPA 8260B	
Methyl tert-butyl ether	11	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	98.2 %	83.5-119		"	"	"	"	"	"
Surrogate: Dibromofluoromethane	118 %	81-136		"	"	"	"	"	"
Surrogate: Toluene-d8	98.2 %	88.8-117		"	"	"	"	"	"

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

LL_MW713_090613
T131926-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	99	50	ug/l	1	3090919	09/09/13	09/10/13	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		125 %		65-135	"	"	"	"	

Metals by SM 3500 Series Methods

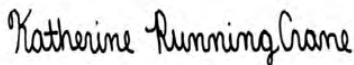
Ferrous Iron	1.60	0.100	mg/l	1	3090923	09/09/13	09/09/13	EPA6010/S M3500	
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090916	09/09/13	09/11/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

Page 14 of 28

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

LL_MW713_090613
T131926-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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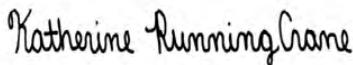
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloroethene	ND	1.0	ug/l	1	3090916	09/09/13	09/11/13	EPA 8260B	
cis-1,2-Dichloroethene	3.9	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	"
Isopropylbenzene	1.0	1.0	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"	"
Benzene	25	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	0.86	0.50	"	"	"	"	"	"	"

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Katherine RunningCrane, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

LL_MW713_090613
T131926-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

m,p-Xylene	1.4	1.0	ug/l	1	3090916	09/09/13	09/11/13	EPA 8260B	
o-Xylene	ND	0.50	"	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	26	1.0	"	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		107 %	83.5-119		"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		93.6 %	81-136		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		97.2 %	88.8-117		"	"	"	"	"

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

Total Alkalinity	620	20	mg/l	1	3090922	09/09/13	09/09/13	EPA 310.1	
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Anions by EPA Method 300.0

Sulfate as SO4	82.2	20.0	mg/l	2	3090921	09/09/13	09/09/13	EPA 300.0	
Nitrate as NO3	ND	0.500	"	1	"	"	09/09/13	"	O-07

RSK-175

Methane	151	1.00	ug/l	1	3090917	09/09/13	09/09/13	RSK-175	
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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

LL_TB_090613
T131926-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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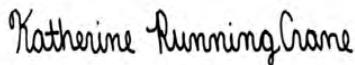
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	3090916	09/09/13	09/09/13	EPA 8260B	
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

Page 17 of 28

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

LL_TB_090613
T131926-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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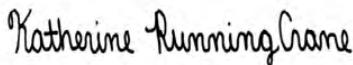
SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	3090916	09/09/13	09/09/13	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

Page 18 of 28



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

LL_TB_090613
T131926-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	3090916	09/09/13	09/09/13	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	97.0 %	83.5-119		"	"	"	"	"	
Surrogate: Dibromofluoromethane	123 %	81-136		"	"	"	"	"	
Surrogate: Toluene-d8	97.9 %	88.8-117		"	"	"	"	"	

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3090919 - EPA 5030 GC

Blank (3090919-BLK1)						Prepared: 09/09/13 Analyzed: 09/10/13				
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	113	"		100		113	65-135			
LCS (3090919-BS1)						Prepared: 09/09/13 Analyzed: 09/11/13				
C6-C12 (GRO)	6090	50	ug/l	5500		111	75-125			
Surrogate 4-Bromofluorobenzene	92.1	"		100		92.1	65-135			
Matrix Spike (3090919-MS1)						Source: T131926-01 Prepared: 09/09/13 Analyzed: 09/10/13				
C6-C12 (GRO)	4960	50	ug/l	5500	727	77.0	65-135			
Surrogate 4-Bromofluorobenzene	99.9	"		100		99.9	65-135			
Matrix Spike Dup (3090919-MSD1)						Source: T131926-01 Prepared: 09/09/13 Analyzed: 09/10/13				
C6-C12 (GRO)	5240	50	ug/l	5500	727	82.0	65-135	5.37	20	
Surrogate 4-Bromofluorobenzene	111	"		100		111	65-135			



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Lake Forest, California 92630
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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

Metals by SM 3500 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit	Notes
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Batch 3090923 - EPA 3010A

Blank (3090923-BLK1)

Ferrous Iron ND 0.100 mg/l

Prepared & Analyzed: 09/09/13

Duplicate (3090923-DUP1)

Source: T131926-01 Prepared & Analyzed: 09/09/13

Ferrous Iron 2.90 0.100 mg/l 3.16 8.68 200

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3090916 - EPA 5030 GCMS

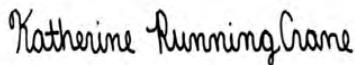
Blank (3090916-BLK1)

Prepared & Analyzed: 09/09/13

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Katherine RunningCrane, Project Manager

Page 22 of 28

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3090916 - EPA 5030 GCMS

Blank (3090916-BLK1)		Prepared & Analyzed: 09/09/13								
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
<i>Surrogate 4-Bromofluorobenzene</i>	7.79	"	8.00		97.4	83.5-119				
<i>Surrogate Dibromofluoromethane</i>	9.25	"	8.00		116	81-136				
<i>Surrogate Toluene-d8</i>	7.77	"	8.00		97.1	88.8-117				

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 3090916 - EPA 5030 GCMS

LCS (3090916-BS1)		Prepared: 09/09/13 Analyzed: 09/10/13					
Chlorobenzene	17.9	1.0	ug/l	20.0	89.4	75-125	
1,1-Dichloroethene	21.5	1.0	"	20.0	107	75-125	
Trichloroethene	18.4	1.0	"	20.0	92.0	75-125	
Benzene	19.6	0.50	"	20.0	97.8	75-125	
Toluene	16.7	0.50	"	20.0	83.4	75-125	
<i>Surrogate</i> 4-Bromofluorobenzene	7.58		"	8.00	94.8	83.5-119	
<i>Surrogate</i> Dibromofluoromethane	10.9		"	8.00	136	81-136	
<i>Surrogate</i> Toluene-d8	7.03		"	8.00	87.9	88.8-117	S-GC

Matrix Spike (3090916-MS1)		Source: T131926-01 Prepared: 09/09/13 Analyzed: 09/10/13					
Chlorobenzene	18.4	1.0	ug/l	20.0	ND	91.8	75-125
1,1-Dichloroethene	5.89	1.0	"	20.0	ND	29.4	75-125
Trichloroethene	16.1	1.0	"	20.0	ND	80.4	75-125
Benzene	21.2	0.50	"	20.0	2.70	92.6	75-125
Toluene	18.2	0.50	"	20.0	ND	91.1	75-125
<i>Surrogate</i> 4-Bromofluorobenzene	8.08		"	8.00		101	83.5-119
<i>Surrogate</i> Dibromofluoromethane	10.1		"	8.00		126	81-136
<i>Surrogate</i> Toluene-d8	7.78		"	8.00		97.2	88.8-117

Matrix Spike Dup (3090916-MSD1)		Source: T131926-01 Prepared: 09/09/13 Analyzed: 09/10/13					
Chlorobenzene	19.5	1.0	ug/l	20.0	ND	97.6	75-125
1,1-Dichloroethene	18.9	1.0	"	20.0	ND	94.7	75-125
Trichloroethene	17.1	1.0	"	20.0	ND	85.3	75-125
Benzene	23.7	0.50	"	20.0	2.70	105	75-125
Toluene	19.9	0.50	"	20.0	ND	99.3	75-125
<i>Surrogate</i> 4-Bromofluorobenzene	8.00		"	8.00		100	83.5-119
<i>Surrogate</i> Dibromofluoromethane	11.0		"	8.00		137	81-136
<i>Surrogate</i> Toluene-d8	7.74		"	8.00		96.8	88.8-117



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Lake Forest, California 92630
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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD Limit	Notes
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Batch 3090922 - General Preparation

Duplicate (3090922-DUP1)	Source: T131926-01	Prepared & Analyzed: 09/09/13
Total Alkalinity	840	20 mg/l



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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

Anions by EPA Method 300.0 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 3090921 - General Preparation

Blank (3090921-BLK1)

Sulfate as SO4	ND	10.0	mg/l							
Nitrate as NO3	ND	0.500	"							

Prepared & Analyzed: 09/09/13

LCS (3090921-BS1)

Sulfate as SO4	10.3	10.0	mg/l	10.0	103	75-125				
Nitrate as NO3	0.561	0.500	"	0.500	112	75-125				

Prepared & Analyzed: 09/09/13

Matrix Spike (3090921-MS1)

Source: T131926-01 Prepared & Analyzed: 09/09/13

Sulfate as SO4	37.5	10.0	mg/l	10.0	27.0	105	75-125			
Nitrate as NO3	0.557	0.500	"	0.500	ND	111	75-125			

Matrix Spike Dup (3090921-MSD1)

Source: T131926-01 Prepared & Analyzed: 09/09/13

Sulfate as SO4	36.2	10.0	mg/l	10.0	27.0	92.0	75-125	3.51	20	
Nitrate as NO3	0.534	0.500	"	0.500	ND	107	75-125	4.22	20	



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15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

RSK-175 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 3090917 - EPA 3810m Headspace

Blank (3090917-BLK1)

Methane ND 1.00 ug/l

Prepared & Analyzed: 09/09/13

Duplicate (3090917-DUP1)

Source: T131926-01 Prepared & Analyzed: 09/09/13

Methane 521 1.00 ug/l 558 6.73 20



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15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
09/13/13 11:11

Notes and Definitions

- S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- QM-07 The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- O-07 The sample was analyzed outside the EPA recommended holding time of 48 hours.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
 Address: 15375 Barranca Pkwy, Ste. K-101, Irvine, CA 92618
 Phone: (714) 508-0800 Fax: (714) 508-0880
 Project Manager: Jeremy Squire (714) 604-5836

Date: 09/06/13 Page: 1 OF 1
 Project Name: CENCO
 Collector: A. Wightman / J. Scott Client Project #: 1003-001-300
 Batch #: T131926 EDF #:

Sample ID	Date Sampled	Time	Sample Type								Total # of containers	Comments/Preservative	Laboratory ID #
				TPHg (8015 M)	VOCs (8260 B)	Methane	Alkalinity	Nitrate, Sulfate (300)	Ferrous Iron				
LL-MW702-090613	09/06/13	0905	WATER	X	X	X	X	X	X		12		
LL-MW704-090613		1030		X	X	X	X	X	X		12		
LL-MW712-090613_01		1330		XX							6		
LL-MW712-090613_02		1335		XX							6		
LL-MW713-090613		1505		X	X	X	X	XX			12		
LL-TB-090613	-	-		X							2		
Relinquished by: (signature)	Date / Time			Received by: (Sign / Date / Time)				Total # of containers	50	Notes			
<i>T. A. S.</i>	<i>09/06/13 15:55</i>			<i>J. Scott 9/6/13 5:55</i>				Chain of Custody seals					
Relinquished by: (signature)	Date / Time			Received by: (Sign / Date / Time)				Seals intact? Y/N/NA					
								Received good condition/cold					
Relinquished by: (signature)	Date / Time			Received by: (Sign / Date / Time)				Turn around time:	Standard				

Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # 7131926

Client Name: MUREX

Project: CENCO

Received by: PATRICK

Date/Time Received: 9-6-13 / 15:55

Delivered by: Client SunStar Courier GSO FedEx Other _____

Total number of coolers received 0 Temp criteria = $6^{\circ}\text{C} > 0^{\circ}\text{C}$ (no frozen containers)

Temperature: cooler #1 1.2 $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = 1.0 $^{\circ}\text{C}$ corrected temperature

cooler #2 _____ $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = _____ $^{\circ}\text{C}$ corrected temperature

cooler #3 _____ $^{\circ}\text{C}$ +/- the CF (- 0.2 $^{\circ}\text{C}$) = _____ $^{\circ}\text{C}$ corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. Yes No* N/A

Custody Seals Intact on Cooler/Sample Yes No* N/A

Sample Containers Intact Yes No*

Sample labels match COC ID's Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. Yes No*

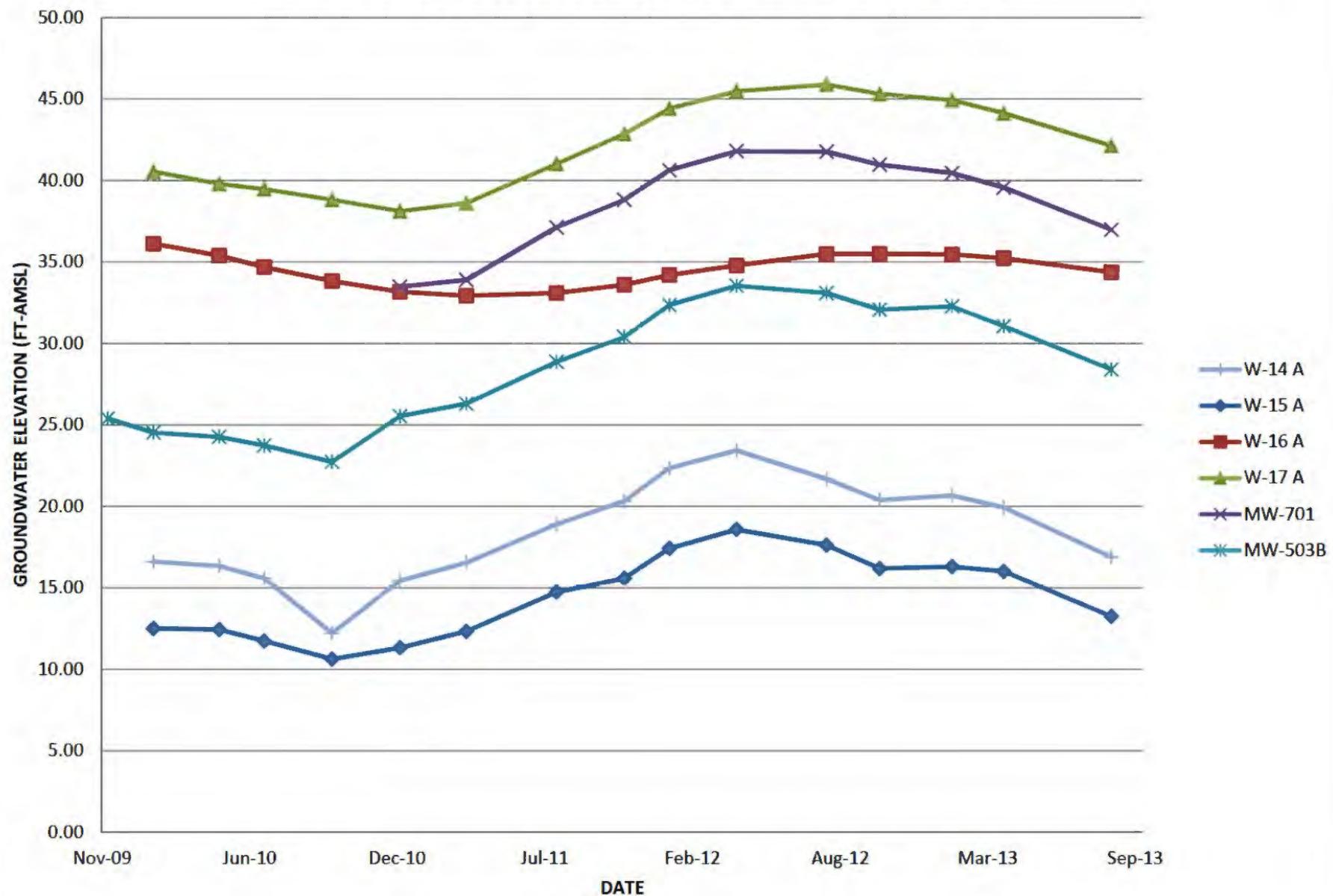
* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date SG 9-7-13

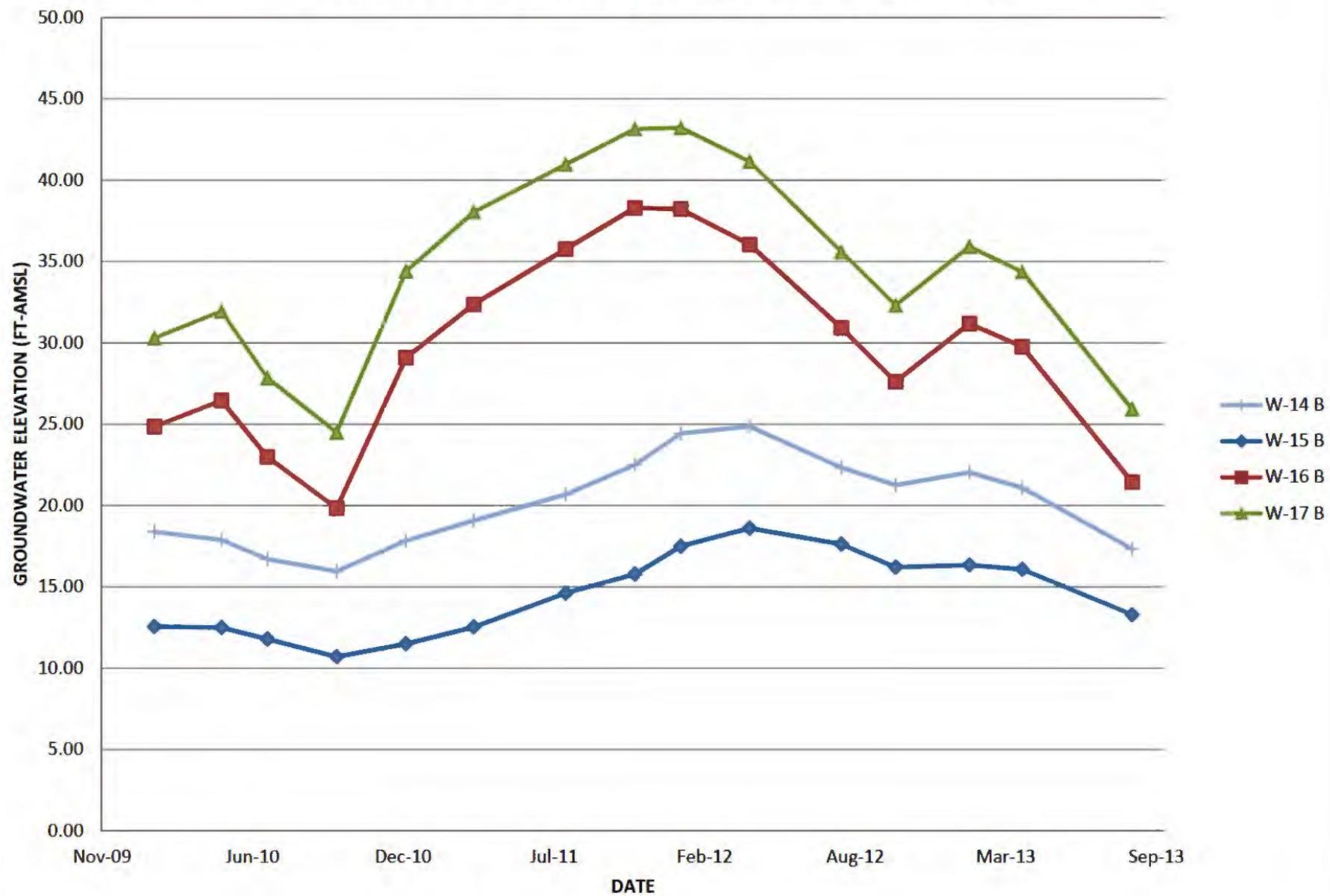
Comments:

Appendix C

A - SCREENED WELLS (APPROX 60-120 FT-BGS)



B - SCREENED WELLS (APPROX 145-170 FT-BGS)



C - SCREENED WELLS (APPROX 185-200 FT-BGS)

